

PRODUCTS

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IR & NIR LED

Infrared (IR) is invisible radiant energy, electromagnetic radiation with longer wavelengths than those of visible light, extending from the nominal red edge of the visible spectrum at ~700nm (frequency 430 THz) to 1mm (300 GHz) (although from test data some people can see infrared up to at least 1050nm) in  $\lambda$ P wavelengths. Often times what we call Near IR is added to this range at the low end to encompass 665nm and upwards wavelengths. Much of the energy from the Sun arrives on Earth in the form of infrared radiation. Sunlight at zenith provides an irradiance of just over 1 kilowatt per square meter at sea level. Of this energy, 527 watts is infrared radiation, 445 watts is visible light, and 32 watts is ultraviolet radiation. IR radiation is often divided into three smaller regions: 0.750 – 3 $\mu$ m, 3 – 30 $\mu$ m, and 30 – 1000 $\mu$ m – defined as near-infrared (NIR), mid-wave infrared (MWIR), and far-infrared (FIR), respectively. The CIE IR band divisions include IR-A, -B and -C.

|      |                                          |
|------|------------------------------------------|
| IR-A | 700nm–1400nm (0.7 $\mu$ m – 1.4 $\mu$ m) |
| IR-B | 1400nm–3000 nm (1.4 $\mu$ m – 3 $\mu$ m) |
| IR-C | 3000nm–1mm (3 $\mu$ m – 1000 $\mu$ m)    |

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DATASHEET

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Through-Hole

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLE $\theta$ 1/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|-----------------------------------------|------------------|
| L680-36AU | No           |  | 680             | Mold         | Φ3mm         | 20                     | 5.8                         | 19                                      | 3                |
| L680-33AU | No           |  | 680             | Mold         | Φ3mm         | 20                     | 5.8                         | 16                                      | 3                |
| L680-09AU | No           |  | 680             | Mold         | Φ5mm         | 20                     | 5.8                         | 10_21*                                  | 5                |
| L680-06AU | No           |  | 680             | Mold         | Φ5mm         | 20                     | 5.8                         | 3                                       | 5                |
| L680-05AU | No           |  | 680             | Mold         | Φ5mm         | 20                     | 5.8                         | 44*                                     | 5                |
| L680-04AU | No           |  | 680             | Mold         | Φ5mm         | 20                     | 5.8                         | 16                                      | 5                |
| L680-03AU | No           |  | 680             | Mold         | Φ5mm         | 20                     | 5.8                         | 9                                       | 5                |
| L680-02AU | No           |  | 680             | Mold         | Φ5mm         | 20                     | 5.8                         | 3                                       | 5                |

| PRODUCT #  | DISCONTINUED' | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEθ1/2 (DEGREE) | PACKAGE DIAMETER |
|------------|---------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|------------------|
| L680-01AU  | No            |    | 680             | Mold         | Φ5mm         | 20                     | 5.8                         | 9                              | 5                |
| L700-36AU  | No            |    | 700             | Mold         | Φ3mm         | 20                     | 5.5                         | 23                             | 3                |
| L700-33AU  | No            |    | 700             | Mold         | Φ3mm         | 20                     | 5.5                         | 19                             | 3                |
| L700-09AU  | No            |    | 700             | Mold         | Φ5mm         | 20                     | 5.5                         | 10_21*                         | 5                |
| L700-06AU  | No            |    | 700             | Mold         | Φ5mm         | 20                     | 5.5                         | 4                              | 5                |
| L700-05AU  | No            |    | 700             | Mold         | Φ5mm         | 20                     | 5                           | 40                             | 5                |
| L700-04AU  | No            |    | 700             | Mold         | Φ5mm         | 20                     | 5.5                         | 16                             | 5                |
| L700-03AU  | No            |    | 700             | Mold         | Φ5mm         | 20                     | 5.5                         | 9                              | 5                |
| L700-02AU  | No            |    | 700             | Mold         | Φ5mm         | 20                     | 5.5                         | 8                              | 5                |
| L700-01AU  | No            |    | 700             | Mold         | Φ5mm         | 20                     | 5.5                         | 10                             | 5                |
| L720-36AU  | No            |    | 720             | Mold         | Φ3mm         | 20                     | 7                           | 23                             | 3                |
| L720-33AU  | No            |    | 720             | Mold         | Φ3mm         | 20                     | 7                           | 20                             | 3                |
| L720-09AU  | No            |    | 720             | Mold         | Φ5mm         | 20                     | 7                           | 10_21*                         | 5                |
| L720-06AU  | No            |  | 720             | Mold         | Φ5mm         | 20                     | 7                           | 4                              | 5                |
| L720-05AU  | No            |  | 720             | Mold         | Φ5mm         | 20                     | 7                           | 44*                            | 5                |
| L720-04AU  | No            |  | 720             | Mold         | Φ5mm         | 20                     | 7                           | 13                             | 5                |
| L720-03AU  | No            |  | 720             | Mold         | Φ5mm         | 20                     | 7                           | 9                              | 5                |
| L720-02AU  | No            |  | 720             | Mold         | Φ5mm         | 20                     | 7                           | 3                              | 5                |
| L720-01AU  | No            |  | 720             | mold         | Φ5mm         | 20                     | 7                           | 9                              | 5                |
| L735-06-55 | No            |  | 735             | Mold         | Φ5mm         | -                      | -                           | -                              |                  |
| L735-36AU  | No            |  | 735             | Mold         | Φ3mm         | 50                     | 25                          | 26                             | 3                |
| L735-33AU  | No            |  | 735             | Mold         | Φ3mm         | 50                     | 25                          | 18                             | 3                |
| L735-09AU  | No            |  | 735             | Mold         | Φ5mm         | 50                     | 25                          | 10_21*                         | 5                |
| L735-06AU  | No            |  | 735             | Mold         | Φ5mm         | 50                     | 25                          | 6                              | 5                |
| L735-05AU  | No            |  | 735             | Mold         | Φ5mm         | 50                     | 25                          | 46                             | 5                |
| L735-04AU  | No            |  | 735             | Mold         | Φ5mm         | 50                     | 25                          | 17                             | 5                |
| L735-03AU  | No            |  | 735             | Mold         | Φ5mm         | 50                     | 25                          | 10                             | 5                |

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF (MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEθ1/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|-------------------------|-----------------------------|--------------------------------|------------------|
| L735-02AU | No           |    | 735             | Mold         | Φ5mm         | 50                      | 25                          | 8                              | 5                |
| L735-01AU | No           |    | 735             | Mold         | Φ5mm         | 50                      | 25                          | 10                             | 5                |
| L740-36AU | No           |    | 740             | Mold         | Φ3mm         | 50                      | 27                          | 28                             | 3                |
| L740-33AU | No           |    | 740             | Mold         | Φ3mm         | 50                      | 27                          | 18                             | 3                |
| L740-09AU | No           |    | 740             | Mold         | Φ5mm         | 50                      | 27                          | 10_21*                         | 5                |
| L740-06AU | No           |    | 740             | Mold         | Φ5mm         | 50                      | 27                          | 6                              | 5                |
| L740-05AU | No           |    | 740             | Mold         | Φ5mm         | 50                      | 27                          | 44*                            | 5                |
| L740-03AU | No           |    | 740             | Mold         | Φ5mm         | 50                      | 27                          | 10                             | 5                |
| L740-02AU | No           |    | 740             | Mold         | Φ5mm         | 50                      | 27                          | 7                              | 5                |
| L750-36AU | No           |    | 750             | Mold         | Φ3mm         | 50                      | 25                          | 25                             | 3                |
| L750-33AU | No           |    | 750             | Mold         | Φ3mm         | 50                      | 25                          | 18                             | 3                |
| L750-06AU | No           |    | 750             | Mold         | Φ5mm         | 50                      | 25                          | 9                              | 5                |
| L750-05AU | No           |   | 750             | Mold         | Φ5mm         | 50                      | 23                          | 47                             | 5                |
| L750-03AU | No           |  | 750             | Mold         | Φ5mm         | 50                      | 25                          | 10                             | 5                |
| L750-02AU | No           |  | 750             | Mold         | Φ5mm         | 50                      | 25                          | 7                              | 5                |
| L750-01AU | No           |  | 750             | Mold         | Φ5mm         | 50                      | 25                          | 11                             | 5                |
| L760-36AU | No           |  | 760             | Mold         | Φ3mm         | 50                      | 27                          | 26                             | 3                |
| L760-33AU | No           |  | 760             | Mold         | Φ3mm         | 50                      | 27                          | 18                             | 3                |
| L760-09AU | No           |  | 760             | Mold         | Φ5mm         | 50                      | 27                          | 10_21*                         | 5                |
| L760-05AU | No           |  | 760             | Mold         | Φ5mm         | 50                      | 23                          | 44                             | 5                |
| L760-04AU | No           |  | 760             | Mold         | Φ5mm         | 50                      | 27                          | 16                             | 5                |
| L760-03AU | No           |  | 760             | Mold         | Φ5mm         | 50                      | 27                          | 10                             | 5                |
| L760-02AU | No           |  | 760             | Mold         | Φ5mm         | 50                      | 27                          | 4                              | 5                |
| L760-01AU | No           |  | 760             | Mold         | Φ5mm         | 50                      | 27                          | 11                             | 5                |
| L770-36AU | No           |  | 770             | Mold         | Φ3mm         | 50                      | 26                          | 30                             | 3                |
| L770-33AU | No           |  | 770             | Mold         | Φ3mm         | 50                      | 26                          | 18                             | 3                |
| L770-09AU | No           |  | 770             | Mold         | Φ5mm         | 50                      | 26                          | 10_21*                         | 5                |

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF (MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEΘ1/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|-------------------------|-----------------------------|--------------------------------|------------------|
| L770-06AU | No           |    | 770             | Mold         | Φ5mm         | 50                      | 26                          | 7                              | 5                |
| L770-05AU | No           |    | 770             | Mold         | Φ5mm         | 50                      | 26                          | 44*                            | 5                |
| L770-04AU | No           |    | 770             | Mold         | Φ5mm         | 50                      | 26                          | 17                             | 5                |
| L770-03AU | No           |    | 770             | Mold         | Φ5mm         | 50                      | 26                          | 10                             | 5                |
| L770-02AU | No           |    | 770             | Mold         | Φ5mm         | 50                      | 26                          | 8                              | 5                |
| L770-01AU | No           |    | 770             | Mold         | Φ5mm         | 50                      | 26                          | 11                             | 5                |
| L780-05AU | No           |    | 780             | Mold         | Φ5mm         | -                       | -                           | -                              |                  |
| L780-36AU | No           |    | 780             | Mold         | Φ3mm         | 50                      | 24                          | 28                             | 3                |
| L780-33AU | No           |    | 780             | Mold         | Φ3mm         | 50                      | 24                          | 18                             | 3                |
| L780-09AU | No           |    | 780             | Mold         | Φ5mm         | 50                      | 24                          | Long:23<br>Short:11            |                  |
| L780-06AU | No           |    | 780             | Mold         | Φ5mm         | 50                      | 24                          | 8                              | 5                |
| L780-04AU | No           |    | 780             | Mold         | Φ5mm         | 50                      | 24                          | 17                             | 5                |
| L780-03AU | No           |  | 780             | Mold         | Φ5mm         | 50                      | 24                          | 10                             | 5                |
| L780-02AU | No           |  | 780             | Mold         | Φ5mm         | 50                      | 24                          | 9                              | 5                |
| L800-36AU | No           |  | 800             | Mold         | Φ3mm         | -                       | -                           | -                              |                  |
| L800-33AU | No           |  | 800             | Mold         | Φ3mm         | 50                      | 27                          | 18                             | 3                |
| L800-09AU | No           |  | 800             | Mold         | Φ5mm         | 50                      | 27                          | 10_21*                         | 5                |
| L800-06AU | No           |  | 800             | Mold         | Φ5mm         | 50                      | 27                          | 4                              | 5                |
| L800-05AU | No           |  | 800             | Mold         | Φ5mm         | 50                      | 22                          | 44                             | 5                |
| L800-04AU | No           |  | 800             | Mold         | Φ5mm         | 50                      | 27                          | 17                             | 5                |
| L800-03AU | No           |  | 800             | Mold         | Φ5mm         | 50                      | 27                          | 10                             | 5                |
| L800-02AU | No           |  | 800             | Mold         | Φ5mm         | 50                      | 27                          | 4                              | 5                |
| L800-01AU | No           |  | 800             | Mold         | Φ5mm         | 50                      | 27                          | 10                             | 5                |
| L805-04AU | No           |  | 805             | Mold         | Φ5mm         | 50                      | 25                          | 17*                            | 5                |
| L805-02AU | No           |  | 805             | Mold         | Φ5mm         | 50                      | 25                          | 8*                             | 5                |
| L805-01AU | No           |  | 805             | Mold         | Φ5mm         | 50                      | 25                          | 10*                            | 5                |
| L810-02AU | No           |  | 810             | Mold         | Φ5mm         | 50                      | 24                          | 8                              | 5                |

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF (MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEΘ1/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|-------------------------|-----------------------------|--------------------------------|------------------|
| L810-36AU | No           |    | 810             | Mold         | Φ3mm         | 50                      | 24                          | 29                             | 3                |
| L810-33AU | No           |    | 810             | Mold         | Φ3mm         | 50                      | 24                          | 19                             | 3                |
| L810-09AU | No           |    | 810             | Mold         | Φ5mm         | 50                      | 24                          | 10_21*                         | 5                |
| L810-06AU | No           |    | 810             | Mold         | Φ5mm         | 50                      | 24                          | 8                              | 5                |
| L810-05AU | No           |    | 810             | Mold         | Φ5mm         | 50                      | 20                          | 48                             | 5                |
| L810-04AU | No           |    | 810             | Mold         | Φ5mm         | 50                      | 24                          | 17                             | 5                |
| L810-03AU | No           |    | 810             | Mold         | Φ5mm         | 50                      | 24                          | 11                             | 5                |
| L810-01AU | No           |    | 810             | Mold         | Φ5mm         | 50                      | 24                          | 11                             | 5                |
| L820-36AU | No           |    | 820             | Mold         | Φ3mm         | 50                      | 25                          | 26                             | 3                |
| L820-33AU | No           |    | 820             | Mold         | Φ3mm         | 50                      | 25                          | 17                             | 3                |
| L820-09AU | No           |    | 820             | Mold         | Φ5mm         | 50                      | 25                          | 10_21*                         | 5                |
| L820-06AU | No           |    | 820             | Mold         | Φ5mm         | 50                      | 25                          | 4*                             | 5                |
| L820-05AU | No           |  | 820             | Mold         | Φ5mm         | 50                      | 25                          | 44*                            | 5                |
| L820-04AU | No           |  | 820             | Mold         | Φ5mm         | 50                      | 25                          | 17                             | 5                |
| L820-03AU | No           |  | 820             | Mold         | Φ5mm         | 50                      | 25                          | 10                             | 5                |
| L820-02AU | No           |  | 820             | Mold         | Φ5mm         | 50                      | 25                          | 7                              | 5                |
| L820-01AU | No           |  | 820             | Mold         | Φ5mm         | 50                      | 25                          | 10                             | 5                |
| L830-36UP | No           |  | 830             | Mold         | Φ3mm         | 50                      | 25                          | 30                             | 3                |
| L830-33UP | No           |  | 830             | Mold         | Φ3mm         | 50                      | 25                          | 20                             | 3                |
| L830-05UP | No           |  | 830             | Mold         | Φ5mm         | 50                      | 22                          | 44                             | 5                |
| L830-04UP | No           |  | 830             | Mold         | Φ5mm         | 50                      | 25                          | 16                             | 5                |
| L830-03UP | No           |  | 830             | Mold         | Φ5mm         | 50                      | 25                          | 11                             | 5                |
| L830-36AU | No           |  | 830             | Mold         | Φ3mm         | 50                      | 27                          | 34                             | 3                |
| L830-33AU | No           |  | 830             | Mold         | Φ3mm         | 50                      | 27                          | 18                             | 3                |
| L830-09AU | No           |  | 830             | Mold         | Φ5mm         | 50                      | 28                          | 10_21*                         | 5                |
| L830-06AU | No           |  | 830             | Mold         | Φ5mm         | 50                      | 27                          | 4*                             | 5                |
| L830-05AU | No           |  | 830             | Mold         | Φ5mm         | 50                      | 20                          | 48                             | 5                |

| PRODUCT #   | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF (MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEθ1/2 (DEGREE) | PACKAGE DIAMETER |
|-------------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|-------------------------|-----------------------------|--------------------------------|------------------|
| L830-04AU   | No           |    | 830             | Mold         | Φ5mm         | 50                      | 27                          | 19                             | 5                |
| L830-03AU   | No           |    | 830             | Mold         | Φ5mm         | 50                      | 27                          | 10                             | 5                |
| L830-02AU   | No           |    | 830             | Mold         | Φ5mm         | 50                      | 27                          | 4                              | 5                |
| L830-01AU   | No           |    | 830             | Mold         | Φ5mm         | 50                      | 27                          | 10                             | 5                |
| L840-36AU   | No           |    | 840             | Mold         | Φ3mm         | 50                      | 26                          | 33                             | 3                |
| L840-33AU   | No           |    | 840             | Mold         | Φ3mm         | 50                      | 26                          | 17*                            | 3                |
| L840-09AU   | No           |    | 840             | Mold         | Φ5mm         | 50                      | 26                          | 10_21*                         | 5                |
| L840-06AU   | No           |    | 840             | Mold         | Φ5mm         | 50                      | 26                          | 4*                             | 5                |
| L840-05AU   | No           |    | 840             | Mold         | Φ5mm         | 50                      | 26                          | 44*                            | 5                |
| L840-04AU   | No           |    | 840             | Mold         | Φ5mm         | 50                      | 26                          | 17*                            | 5                |
| L840-03AU   | No           |    | 840             | Mold         | Φ5mm         | 50                      | 26                          | 10*                            | 5                |
| L840-02AU   | No           |    | 840             | Mold         | Φ5mm         | 50                      | 26                          | 8*                             | 5                |
| L840-01AU   | No           |   | 840             | Mold         | Φ5mm         | 50                      | 26                          | 10                             | 5                |
| L850F-06-55 | No           |  | 850             | Mold         | Φ5mm         | -                       | -                           | 4*                             |                  |
| L850F-03-55 | No           |  | 850             | Mold         | Φ5mm         | -                       | -                           | 10*                            |                  |
| L850F-01-55 | No           |  | 850             | Mold         | Φ5mm         | -                       | -                           | 10*                            |                  |
| L850-06L6CU | No           |  | 850             | Mold         | Φ5mm         | -                       | -                           | 4*                             |                  |
| L850D-36    | No           |  | 850             | Mold         | Φ3mm         | 50                      | 26                          | 47                             | 3                |
| L850D-34    | No           |  | 850             | Mold         | Φ3mm         | 50                      | 26                          | 6                              | 3                |
| L850D-33    | No           |  | 850             | Mold         | Φ3mm         | 50                      | 26                          | 16                             | 3                |
| L850D-06    | No           |  | 850             | Mold         | Φ5mm         | 50                      | 26                          | 3                              | 5                |
| L850D-04    | No           |  | 850             | Mold         | Φ5mm         | 50                      | 22                          | 17*                            | 5                |
| L850D-03    | No           |  | 850             | Mold         | Φ5mm         | 50                      | 22                          | 10*                            | 5                |
| L850D-01    | No           |  | 850             | Mold         | Φ5mm         | 50                      | 22                          | 9*                             | 5                |
| L850F-36U   | No           |  | 850             | Mold         | Φ3mm         | 50                      | 28                          | 32*                            | 3                |
| L850F-33U   | No           |  | 850             | Mold         | Φ3mm         | 50                      | 28                          | 17*                            | 3                |
| L850F-09U   | No           |  | 850             | Mold         | Φ5mm         | 50                      | 28                          | 10_21*                         | 5                |

| PRODUCT #   | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF (MA) CURRENT | TOTAL RADIATED POWER PO (MW) | VIEWING HALFANGLE θ1/2 (DEGREE) | PACKAGE DIAMETER |
|-------------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|-------------------------|------------------------------|---------------------------------|------------------|
| L850F-06U   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 4*                              | 5                |
| L850F-05U   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 44*                             | 5                |
| L850F-04U   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 17*                             | 5                |
| L850F-03U   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 10*                             | 5                |
| L850F-02U   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 8*                              | 5                |
| L850F-01U   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 10*                             | 5                |
| L850-36UP   | No           |    | 850             | Mold         | Φ3mm         | 50                      | 28                           | 30                              | 3                |
| L850-33UP   | No           |    | 850             | Mold         | Φ3mm         | 50                      | 28                           | 20                              | 3                |
| L850-09UP   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 10_21*                          | 5                |
| L850-06UP   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 8                               | 5                |
| L850-05UP   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 26                           | 44                              | 5                |
| L850-04UP   | No           |    | 850             | Mold         | Φ5mm         | 50                      | 28                           | 17                              | 5                |
| L850-03UP   | No           |  | 850             | Mold         | Φ5mm         | 50                      | 28                           | 11                              | 5                |
| L850-02UP   | No           |  | 850             | Mold         | Φ5mm         | 50                      | 28                           | 11                              | 5                |
| L850-01UP   | No           |  | 850             | Mold         | Φ5mm         | 50                      | 28                           | 10                              | 5                |
| L870F-06-55 | No           |  | 870             | Mold         | Φ5mm         | 50                      | 25                           | 4*                              |                  |
| L870F-04-55 | No           |  | 870             | Mold         | Φ5mm         | 50                      | 25                           | 17*                             |                  |
| L870F-05-55 | No           |  | 870             | Mold         | Φ5mm         | 50                      | 25                           | 44*                             |                  |
| L870F-02-55 | No           |  | 870             | Mold         | Φ5mm         | 50                      | 25                           | 8*                              |                  |
| L870F-04-55 | No           |  | 870             | Mold         | Φ5mm         | 50                      | 25                           | 17*                             | 5                |
| L870F-03-55 | No           |  | 870             | Mold         | Φ5mm         | 50                      | 25                           | 12                              | 5                |
| L870F-36U   | No           |  | 870             | Mold         | Φ3mm         | 50                      | 28                           | 30                              | 3                |
| L870F-33U   | No           |  | 870             | Mold         | Φ3mm         | 50                      | 28                           | 17*                             | 3                |
| L870F-09U   | No           |  | 870             | Mold         | Φ5mm         | 50                      | 28                           | 10_21*                          | 5                |
| L870F-06U   | No           |  | 870             | Mold         | Φ5mm         | 50                      | 28                           | 8                               | 5                |
| L870F-05U   | No           |  | 870             | Mold         | Φ5mm         | 50                      | 28                           | 44*                             | 5                |
| L870F-04U   | No           |  | 870             | Mold         | Φ5mm         | 50                      | 28                           | 18                              | 5                |

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF (MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEθ1/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|-------------------------|-----------------------------|--------------------------------|------------------|
| L870F-03U | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 10*                            | 5                |
| L870F-02U | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 8*                             | 5                |
| L870F-01U | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 10*                            | 5                |
| L870-36UP | No           |    | 870             | Mold         | Φ3mm         | 50                      | 28                          | 30                             | 3                |
| L870-33UP | No           |    | 870             | Mold         | Φ3mm         | 50                      | 28                          | 20                             | 3                |
| L870-09UP | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 10_21*                         | 5                |
| L870-06UP | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 8                              | 5                |
| L870-05UP | No           |    | 870             | Mold         | Φ5mm         | 50                      | 22                          | 44                             | 5                |
| L870-04UP | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 18                             | 5                |
| L870-03UP | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 11                             | 5                |
| L870-02UP | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 9                              | 5                |
| L870-01UP | No           |    | 870             | Mold         | Φ5mm         | 50                      | 28                          | 11                             | 5                |
| L880-36AU | No           |   | 880             | Mold         | Φ3mm         | 50                      | 25                          | 32                             | 3                |
| L880-33AU | No           |  | 880             | Mold         | Φ3mm         | 50                      | 25                          | 19                             | 3                |
| L880-09AU | No           |  | 880             | Mold         | Φ5mm         | 50                      | 25                          | 10_21*                         | 5                |
| L880-06AU | No           |  | 880             | Mold         | Φ5mm         | 50                      | 25                          | 8                              | 5                |
| L880-05AU | No           |  | 880             | Mold         | Φ5mm         | 50                      | 25                          | 44*                            | 5                |
| L880-04AU | No           |  | 880             | Mold         | Φ5mm         | 50                      | 25                          | 18                             | 5                |
| L880-03AU | No           |  | 880             | Mold         | Φ5mm         | 50                      | 25                          | 10                             | 5                |
| L880-02AU | No           |  | 880             | Mold         | Φ5mm         | 50                      | 25                          | 8                              | 5                |
| L880-01AU | No           |  | 880             | Mold         | Φ5mm         | 50                      | 25                          | 11                             | 5                |
| L890-33AU | No           |  | 890             | Mold         | Φ3mm         | 50                      | 15                          | 20                             | 3                |
| L890-36AU | No           |  | 890             | Mold         | Φ3mm         | 50                      | 15                          | 30                             | 3                |
| L890-09AU | No           |  | 890             | Mold         | Φ5mm         | 50                      | 15                          | 10_21*                         | 5                |
| L890-05AU | No           |  | 890             | Mold         | Φ5mm         | 50                      | 15                          | 44*                            | 5                |
| L890-06AU | No           |  | 890             | Mold         | Φ5mm         | 50                      | 15                          | 10                             | 5                |
| L890-04AU | No           |  | 890             | Mold         | Φ5mm         | 50                      | 15                          | 16                             | 5                |

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF (MA) CURRENT | TOTAL RADIATED POWER PO (MW) | VIEWING HALF-ANGLE θ1/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|-------------------------|------------------------------|----------------------------------|------------------|
| L890-03AU | No           |    | 890             | Mold         | Φ5mm         | 50                      | 15                           | 12                               | 5                |
| L890-01AU | No           |    | 890             | Mold         | Φ5mm         | 50                      | 15                           | 12                               | 5                |
| L890-02AU | No           |    | 890             | Mold         | Φ5mm         | 50                      | 15                           | 10*                              | 5                |
| L910D-36  | No           |    | 910             | Mold         | Φ3mm         | 50                      | 13                           | 48                               | 3                |
| L910D-06  | No           |    | 910             | Mold         | Φ5mm         | 50                      | 13                           | 3                                | 5                |
| L910D-33  | No           |    | 910             | Mold         | Φ3mm         | 50                      | 13                           | 15                               | 3                |
| L910D-04  | No           |    | 910             | Mold         | Φ5mm         | 50                      | 13                           | 13                               | 5                |
| L910D-02  | No           |    | 910             | Mold         | Φ5mm         | 50                      | 13                           | 3                                | 5                |
| L910D-03  | No           |    | 910             | Mold         | Φ5mm         | 50                      | 13                           | 11                               | 5                |
| L910D-01  | No           |    | 910             | Mold         | Φ5mm         | 50                      | 13                           | 11                               | 5                |
| L910-36   | No           |    | 910             | Mold         | Φ3mm         | 50                      | 13                           | 32*                              | 3                |
| L910-33   | No           |    | 910             | Mold         | Φ3mm         | 50                      | 13                           | 19                               | 3                |
| L910-06   | No           |  | 910             | Mold         | Φ5mm         | 50                      | 13                           | 3                                | 5                |
| L910-09   | No           |  | 910             | Mold         | Φ5mm         | 50                      | 13                           | 10_21*                           | 5                |
| L910-05   | No           |  | 910             | Mold         | Φ5mm         | 50                      | 13                           | 44*                              | 5                |
| L910-03   | No           |  | 910             | Mold         | Φ5mm         | 50                      | 13                           | 10*                              | 5                |
| L910-04   | No           |  | 910             | Mold         | Φ5mm         | 50                      | 13                           | 15                               | 5                |
| L910-02   | No           |  | 910             | Mold         | Φ5mm         | 50                      | 13                           | 3                                | 5                |
| L910-01   | No           |  | 910             | Mold         | Φ5mm         | 50                      | 13                           | 9                                | 5                |
| L940D-05  | No           |  | 940             | Mold         | Φ5mm         | 50                      | 25                           | 45                               | 5                |
| L940-34AU | No           |  | 940             | Mold         | Φ3mm         | 50                      | 15                           | 16                               | 3                |
| L940D-34  | No           |  | 940             | Mold         | Φ3mm         | 50                      | 30                           | 6                                | 3                |
| L940D-06  | No           |  | 940             | Mold         | Φ5mm         | 50                      | 30                           | 3                                | 5                |
| L940D-33  | No           |  | 940             | Mold         | Φ3mm         | 50                      | 30                           | 16                               | 3                |
| L940D-04  | No           |  | 940             | Mold         | Φ5mm         | 50                      | 30                           | 10                               | 5                |
| L940D-02  | No           |  | 940             | Mold         | Φ5mm         | 50                      | 30                           | 3                                | 5                |
| L940D-03  | No           |  | 940             | Mold         | Φ5mm         | 50                      | 30                           | 11                               | 5                |

| PRODUCT #  | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEθ1/2 (DEGREE) | PACKAGE DIAMETER |
|------------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|------------------|
| L940-36V   | No           |    | 940             | mold         | Φ3mm         | 50                     | 15*                         | 37*                            | 3                |
| L940-09V   | No           |    | 940             | Mold         | Φ5mm         | 50                     | 16                          | 10_21*                         | 5                |
| L940-33V   | No           |    | 940             | Mold         | Φ3mm         | 50                     | 16                          | 23                             | 3                |
| L940-04V   | No           |    | 940             | Mold         | Φ5mm         | 50                     | 16                          | 20                             | 5                |
| L940-05V   | No           |    | 940             | Mold         | Φ5mm         | 50                     | 16                          | 44*                            | 5                |
| L940-03V   | No           |    | 940             | Mold         | Φ5mm         | 50                     | 16                          | 10*                            | 5                |
| L940-01V   | No           |    | 940             | Mold         | Φ5mm         | 50                     | 16                          | 11                             | 5                |
| L940-02V   | No           |    | 940             | Mold         | Φ5mm         | 50                     | 16                          | 8*                             | 5                |
| L940-36AU  | No           |    | 940             | mold         | Φ3mm         | 50                     | 15                          | 37                             | 3                |
| L940-33AU  | No           |    | 940             | Mold         | Φ3mm         | 50                     | 15                          | 25                             | 3                |
| L940-09AU  | No           |    | 940             | Mold         | Φ5mm         | 50                     | 15                          | 11_21                          | 5                |
| L940-31-2C | No           |    | 940             | Mold         | Φ3mm         | 50                     | 15                          | 52                             | 3                |
| L940-06AU  | No           |  | 940             | Mold         | Φ5mm         | 50                     | 15                          | 10                             | 5                |
| L940-04AU  | No           |  | 940             | Mold         | Φ5mm         | 50                     | 15                          | 22                             | 5                |
| L940-05AU  | No           |  | 940             | Mold         | Φ5mm         | 50                     | 15                          | 37                             | 5                |
| L940-03AU  | No           |  | 940             | Mold         | Φ5mm         | 50                     | 15                          | 13                             | 5                |
| L940-01AU  | No           |  | 940             | Mold         | Φ5mm         | 50                     | 15                          | 13                             | 5                |
| L940-02AU  | No           |  | 940             | Mold         | Φ5mm         | 50                     | 15                          | 10                             | 5                |
| L970D-34   | No           |  | 970             | Mold         | Φ3mm         | 50                     | 30                          | -                              | 5                |
| L970D-33   | No           |  | 970             | Mold         | Φ3mm         | 50                     | 30                          | 17                             | 5                |
| L970D-06   | No           |  | 970             | Mold         | Φ5mm         | 50                     | 30                          | 4                              | 5                |
| L970D-05   | No           |  | 970             | Mold         | Φ5mm         | 50                     | 30                          | 44*                            | 5                |
| L970D-04   | No           |  | 970             | Mold         | Φ5mm         | 50                     | 30                          | 17*                            | 5                |
| L970D-03   | No           |  | 970             | Mold         | Φ5mm         | 50                     | 30                          | 12                             | 5                |
| L970D-02   | No           |  | 970             | Mold         | Φ5mm         | 50                     | 30                          | 8*                             | 5                |
| L970-36    | No           |  | 970             | Mold         | Φ3mm         | 50                     | 7                           | 32                             | 3                |
| L970-09    | No           |  | 970             | Mold         | Φ5mm         | 50                     | 7                           | 10_21*                         | 5                |

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEΘ1/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|------------------|
| L970-33   | No           |    | 970             | Mold         | Φ3mm         | 50                     | 7                           | 22                             | 3                |
| L970-05   | No           |    | 970             | Mold         | Φ5mm         | 50                     | 7                           | 41                             | 5                |
| L970-06   | No           |    | 970             | Mold         | Φ5mm         | 50                     | 7                           | 9                              | 5                |
| L970-04   | No           |    | 970             | Mold         | Φ5mm         | 50                     | 7                           | 18                             | 5                |
| L970-02   | No           |    | 970             | Mold         | Φ5mm         | 50                     | 7                           | 10                             | 5                |
| L970-03   | No           |    | 970             | Mold         | Φ5mm         | 50                     | 7                           | 11                             | 5                |
| L970-01   | No           |    | 970             | Mold         | Φ5mm         | 50                     | 7                           | 11                             | 5                |
| L980D-36  | No           |    | 980             | Mold         | Φ3mm         | 50                     | 30                          | 50                             | 5                |
| L980D-03  | No           |    | 980             | Mold         | Φ5mm         | 50                     | 30                          | 12                             | 5                |
| L980D-02  | No           |    | 980             | Mold         | Φ5mm         | 50                     | 30                          | 8*                             | 5                |
| L980D-01  | No           |    | 980             | Mold         | Φ5mm         | 50                     | 30                          | 10*                            | 5                |
| L980D-06  | No           |    | 980             | Mold         | Φ5mm         | 50                     | 30                          | 4                              | 5                |
| L980D-04  | No           |  | 980             | Mold         | Φ5mm         | 50                     | 30                          | 17*                            | 5                |
| L1200S-34 | No           |  | 1200            | MOLD         | Φ3mm         | 50                     | 9.2                         | -                              |                  |
| L1200S-31 | No           |  | 1200            | MOLD         | Φ3mm         | 50                     | 9.2                         | -                              |                  |
| L1200S-33 | No           |  | 1200            | MOLD         | Φ3mm         | 50                     | 9.2                         | 23                             |                  |
| L1200D-33 | No           |  | 1200            | MOLD         | Φ3mm         | 50                     | 10                          | 16                             |                  |
| L1200S-36 | No           |  | 1200            | MOLD         | Φ3mm         | 50                     | 9.2                         | 30                             |                  |
| L1200S-09 | No           |  | 1200            | MOLD         | Φ5mm         | 50                     | 9.2                         | 10_21                          |                  |
| L1200S-05 | No           |  | 1200            | MOLD         | Φ5mm         | 50                     | 9.0                         | 44                             |                  |
| L1200S-06 | No           |  | 1200            | MOLD         | Φ5mm         | 50                     | 9.2                         | 4                              |                  |
| L1200S-04 | No           |  | 1200            | SMD          | Φ5mm         | 50                     | 9.2                         | 17                             |                  |
| L1200S-01 | No           |  | 1200            | MOLD         | Φ5mm         | 50                     | 9.2                         | 10                             |                  |
| L1200S-02 | No           |  | 1200            | MOLD         | Φ5mm         | 50                     | 9.0                         | 8                              |                  |
| L1200S-33 | No           |  | 1200            | mold         | Φ3mm         | 50                     | 9.2                         | 23                             |                  |
| L1200S-03 | No           |  | 1200            | mold         | Φ5mm         | 50                     | 9.2                         | 14                             |                  |
| L1300S-03 | No           |  | 1300            | mold         | Φ5mm         | 50                     | 9                           | 13                             |                  |

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEΘ1/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|------------------|
| L1300S-05 | No           |    | 1300            | MOLD         | Φ5mm         | 50                     | 9                           | 35                             |                  |
| L1300S-04 | No           |    | 1300            | MOLD         | Φ5mm         | 50                     | 9                           | 21                             |                  |
| L1300S-02 | No           |    | 1300            | MOLD         | Φ5mm         | 50                     | 9                           | 10                             |                  |
| L1300S-01 | No           |    | 1300            | MOLD         | Φ5mm         | 50                     | 9                           | 13                             |                  |
| L1300S-31 | No           |    | 1300            | Mold         | Φ3mm         | 50                     | 9                           | -                              |                  |
| L1300S-36 | No           |    | 1300            | MOLD         | Φ3mm         | 50                     | 9                           | 34                             |                  |
| L1300S-09 | No           |    | 1300            | MOLD         | Φ5mm         | 50                     | 9                           | 10_21                          |                  |
| L1300S-33 | No           |    | 1300            | MOLD         | Φ3mm         | 50                     | 9                           | 23                             |                  |
| L1300S-06 | No           |    | 1300            | MOLD         | Φ5mm         | 50                     | 9                           | 9                              |                  |
| L1450S-34 | No           |    | 1450            | MOLD         | Φ3mm         | 50                     | 4.8                         | -                              |                  |
| L1450S-33 | No           |    | 1450            | MOLD         | Φ3mm         | 50                     | 4.8                         | 23                             |                  |
| L1450S-36 | No           |    | 1450            | MOLD         | Φ3mm         | 50                     | 4.8                         | 35                             |                  |
| L1450S-09 | No           |   | 1450            | MOLD         | Φ5mm         | 50                     | 4                           | 4                              |                  |
| L1450S-05 | No           |  | 1450            | MOLD         | Φ5mm         | 50                     | 4                           | 37                             |                  |
| L1450S-06 | No           |  | 1450            | MOLD         | Φ5mm         | 50                     | 4.8                         | 9                              |                  |
| L1450S-04 | No           |  | 1450            | MOLD         | Φ5mm         | 50                     | 4                           | 17                             |                  |
| L1450S-02 | No           |  | 1450            | MOLD         | Φ5mm         | 50                     | 4                           | 8                              |                  |
| L1450S-03 | No           |  | 1450            | MOLD         | Φ5mm         | 50                     | 4.8                         | 14                             |                  |
| L1450S-01 | No           |  | 1450            | MOLD         | Φ5mm         | 50                     | 4                           | 10                             |                  |
| L1550D-01 | No           |  | 1550            | MOLD         | Φ5mm         | 50                     | 4.3                         | 11                             |                  |
| L1550D-36 | No           |  | 1550            | MOLD         | Φ3mm         | 50                     | 4.3                         | 58                             |                  |
| L1550D-09 | No           |  | 1550            | MOLD         | Φ5mm         | 50                     | 4.3                         | 14_28                          |                  |
| L1550D-33 | No           |  | 1550            | MOLD         | Φ3mm         | 50                     | 4.3                         | 20                             |                  |
| L1550D-06 | No           |  | 1550            | MOLD         | Φ5mm         | 50                     | 4.3                         | 3                              |                  |
| L1550D-04 | No           |  | 1550            | MOLD         | Φ5mm         | 50                     | 4.3                         | 10                             |                  |
| L1550D-05 | No           |  | 1550            | MOLD         | Φ5mm         | 50                     | 3.7                         | 40                             |                  |
| L1550D-03 | No           |  | 1550            | MOLD         | Φ5mm         | 50                     | 4.3                         | 14                             |                  |

| PRODUCT # | DISCONTINUED | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLE01/2 (DEGREE) | PACKAGE DIAMETER |
|-----------|--------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|------------------|
| L1550D-02 | No           |    | 1550            | MOLD         | Φ5mm         | 50                     | 4.3                         | 3                              |                  |
| L1550S-36 | No           |    | 1550            | mold         | Φ3mm         | 50                     | 3.8                         | 36                             |                  |
| L1550S-33 | No           |    | 1550            | mold         | Φ3mm         | 50                     | 3.8                         | 22                             |                  |
| L1550S-06 | No           |    | 1550            | mold         | Φ5mm         | 50                     | 3.8                         | 9                              |                  |
| L1550S-05 | No           |    | 1550            | mold         | Φ5mm         | 50                     | 3.8                         | 35                             |                  |
| L1550S-04 | No           |    | 1550            | mold         | Φ5mm         | 50                     | 3.8                         | 24                             |                  |
| L1550S-02 | No           |    | 1550            | mold         | Φ5mm         | 50                     | 3.8                         | 9                              |                  |
| L1550S-01 | No           |    | 1550            | mold         | Φ5mm         | 50                     | 3.8                         | 16                             |                  |
| L1550S-03 | No           |    | 1550            | mold         | Φ5mm         | 50                     | 3.8                         | 13                             |                  |
| L1650D-02 | No           |    | 1650            | MOLD         | Φ5mm         | 50                     | 2.3                         | 3                              |                  |
| L1650D-03 | No           |    | 1650            | MOLD         | Φ5mm         | 50                     | 2.3                         | 14                             |                  |
| L1650S-36 | No           |    | 1650            | mold         | Φ3mm         | 50                     | 2.3                         | 33                             |                  |
| L1650D-36 | No           |  | 1650            | MOLD         | Φ3mm         | 50                     | 2.3                         | 58                             |                  |
| L1650D-33 | No           |  | 1650            | MOLD         | Φ3mm         | 50                     | 2.3                         | 20                             |                  |
| L1650D-06 | No           |  | 1650            | MOLD         | Φ5mm         | 50                     | 2.3                         | 3                              |                  |
| L1650D-05 | No           |  | 1650            | MOLD         | Φ5mm         | 50                     | 2                           | 40                             |                  |
| L1650D-01 | No           |  | 1650            | MOLD         | Φ5mm         | 50                     | 2.3                         | 11                             |                  |
| L1650S-03 | No           |  | 1650            | mold         | Φ5mm         | 50                     | 2.3                         | 12                             |                  |

## SMBB

| PRODUCT #        | DISCONTINUED? | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLE01/2 (DEGREE) |
|------------------|---------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|
| SMBB830D-1100-05 | No            |  | 830             | SMD          | 5mm x 5mm    | 800                    | 340                         | 46                             |
| SMBB830D-1100-03 | No            |  | 830             | SMD          | 5mm x 5mm    | 800                    | 340                         | 22                             |
| SMBB830D-1100-02 | No            |  | 830             | SMD          | 5mm x 5mm    | 800                    | 340                         | 9                              |
| SMBB830D-1100    | No            |  | 830             | SMD          | 5mm x 5mm    | 800                    | 340                         | 64                             |

| PRODUCT #              | DISCONTINUED? | DATASHEET                                                                           | WAVELENGTH<br>(NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD<br>IF(MA) CURRENT | TOTAL<br>RADIATED<br>POWER PO(MW) | VIEWING<br>HALFANGLE $\theta$ 1/2<br>(DEGREE) |
|------------------------|---------------|-------------------------------------------------------------------------------------|--------------------|--------------|--------------|---------------------------|-----------------------------------|-----------------------------------------------|
| SMBB830N-1100<br>-05   | Yes           |    | 830                | SMD          | 5mm x 5mm    | 800                       | 340                               | 46                                            |
| SMBB830N-1100<br>-03   | Yes           |    | 830                | SMD          | 5mm x 5mm    | 800                       | 340                               | 22                                            |
| SMBB830N-1100<br>-02   | Yes           |    | 830                | SMD          | 5mm x 5mm    | 800                       | 340                               | 9                                             |
| SMBB830N-1100          | Yes           |    | 830                | SMD          | 5mm x 5mm    | 800                       | 340                               | 64                                            |
| SMBB850D-1100          | No            |    | 850                | SMD          | 5mm x 5mm    | 1000                      | 780                               | 65                                            |
| SMBB870D-1100          | No            |    | 870                | SMD          | 5mm x 5mm    | 1000                      | 440                               | 65                                            |
| SMBB880D-1100<br>-02   | No            |    | 880                | SMD          | 5mm x 5mm    | 800                       | 610                               | 9                                             |
| SMBB880D-1100          | No            |    | 880                | SMD          | 5mm x 5mm    | 800                       | 610                               | 65                                            |
| SMBB880D-1100<br>-05   | No            |    | 880                | SMD          | 5mm x 5mm    | 800                       | 610                               | 45                                            |
| SMBB880D-1100<br>-03   | No            |  | 880                | SMD          | 5mm x 5mm    | 800                       | 610                               | 23                                            |
| SMBB970D-1100          | No            |  | 970                | SMD          | 5mm x 5mm    | 1000                      | 780                               | 65                                            |
| SMBB1050GD-1<br>100-05 | No            |  | 1050               | SMD          | 5mm x 5mm    | 1000                      | 750                               | 44                                            |
| SMBB1050GD-1<br>100-03 | No            |  | 1050               | SMD          | 5mm x 5mm    | 1000                      | 750                               | 23                                            |
| SMBB1050GD-1<br>100-02 | No            |  | 1050               | SMD          | 5mm x 5mm    | 1000                      | 750                               | 10                                            |
| SMBB1050GD-1<br>100    | No            |  | 1050               | SMD          | 5mm x 5mm    | 1000                      | 700                               | 64                                            |
| SMBB1050S-110<br>0-02  | No            |  | 1050               | SMD          | 5mm x 5mm    | 500                       | 52                                | 10                                            |
| SMBB1200S-110<br>0-05  | No            |  | 1200               | SMD          | 5mm x 5mm    | 500                       | 50                                | 53                                            |
| SMBB1200S-110<br>0-02  | No            |  | 1200               | SMD          | 5mm x 5mm    | 500                       | 50                                | 9                                             |
| SMBB1200S-110<br>0     | No            |  | 1200               | SMD          | 5mm x 5mm    | 500                       | 50                                | 68                                            |
| SMBB1300S-110<br>0-02  | No            |  | 1300               | SMD          | 5mm x 5mm    | 500                       | 45                                | 10                                            |

| PRODUCT #         | DISCONTINUED? | DATASHEET                                                                         | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLE $\theta$ 1/2 (DEGREE) |
|-------------------|---------------|-----------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|-----------------------------------------|
| SMBB1300S-1100    | No            |  | 1300            | SMD          | 5mm x 5mm    | 500                    | 45                          | 68                                      |
| SMBB1450S-1100    | No            |  | 1450            | SMD          | 5mm x 5mm    | 500                    | 25                          | 67                                      |
| SMBB1550S-1100-02 | No            |  | 1550            | SMD          | 5mm x 5mm    | 500                    | 20                          | 10                                      |
| SMBB1550S-1100    | No            |  | 1550            | SMD          | 5mm x 5mm    | 500                    | 20                          | 68                                      |
| SMBB1650S-1100    | No            |  | 1650            | SMD          | 5mm x 5mm    | 500                    | 16                          | 68                                      |

## SMT

| PRODUCT # | DISCONTINUED? | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE  | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLE $\theta$ 1/2 (DEGREE) |
|-----------|---------------|-------------------------------------------------------------------------------------|-----------------|--------------|---------------|------------------------|-----------------------------|-----------------------------------------|
| SMT700    | No            |    | 700             | SMD          | 3.5mm x 2.8mm | 20                     | 5.5                         | 63                                      |
| SMT720    | No            |  | 720             | SMD          | 3.5mm x 2.8mm | 20                     | 7                           | 64                                      |
| SMT735    | No            |  | 735             | SMD          | 3.5mm x 2.8mm | 50                     | 25                          | 63                                      |
| SMT740    | No            |  | 740             | SMD          | 3.5mm x 2.8mm | 50                     | 27                          | 63                                      |
| SMT750-27 | No            |  | 750             | SMD          | 3.5mm x 2.8mm | 50                     | 25                          | 29*                                     |
| SMT750-25 | No            |  | 750             | SMD          | 3.5mm x 2.8mm | 50                     | 25                          | 20*                                     |
| SMT750-23 | No            |  | 750             | SMD          | 3.5mm x 2.8mm | 50                     | 25                          | 14                                      |
| SMT750    | No            |  | 750             | SMD          | 3.5mm x 2.8mm | 50                     | 25                          | 63                                      |
| SMT760-29 | No            |  | 760             | SMD          | 3.5mm x 2.8mm | 50                     | 27                          | 43                                      |
| SMT760    | No            |  | 760             | SMD          | 3.5mm x 2.8mm | 50                     | 27                          | 63                                      |
| SMT770    | No            |  | 770             | SMD          | 3.5mm x 2.8mm | 50                     | 26                          | 63                                      |
| SMT780D   | No            |  | 780             | SMD          | 3.5mm x 2.8mm | 50                     | 24                          | 59                                      |
| SMT780-29 | No            |  | 780             | SMD          | 3.5mm x 2.8mm | 50                     | 24                          | 42                                      |
| SMT780-27 | No            |  | 780             | SMD          | 3.5mm x 2.8mm | 50                     | 24                          | 27                                      |
| SMT780-25 | No            |  | 780             | SMD          | 3.5mm x 2.8mm | 50                     | 24                          | 22                                      |
| SMT780-23 | No            |  | 780             | SMD          | 3.5mm x 2.8mm | 50                     | 24                          | 18                                      |

| PRODUCT #  | DISCONTINUED? | DATASHEET                                                                           | WAVELENGTH<br>(NM) | PACKAGE TYPE | PACKAGE SIZE  | FORWARD<br>IF(MA) CURRENT | TOTAL<br>RADIATED<br>POWER PO(MW) | VIEWING<br>HALFANGLE $\theta_{1/2}$<br>(DEGREE) |
|------------|---------------|-------------------------------------------------------------------------------------|--------------------|--------------|---------------|---------------------------|-----------------------------------|-------------------------------------------------|
| SMT780     | No            |    | 780                | SMD          | 3.5mm x 2.8mm | 50                        | 24                                | 63                                              |
| SMT810D-S1 | No            |    | 810                | SMD          | 3.5mm x 2.8mm | 50                        | 25                                | 8                                               |
| SMT810D-22 | No            |    | 810                | SMD          | 3.5mm x 2.8mm | 50                        | 25                                | 12                                              |
| SMT810N    | No            |    | 810                | SMD          | 3.5mm x 2.8mm | 50                        | 21                                | 63                                              |
| SMT810     | No            |    | 810                | SMD          | 3.5mm x 2.8mm | 50                        | 24                                | 64                                              |
| SMT820     | No            |    | 820                | SMD          | 3.5mm x 2.8mm | 50                        | 25                                | 64                                              |
| SMT830N-25 | No            |    | 830                | SMD          | 3.5mm x 2.8mm | 50                        | 25                                | 20*                                             |
| SMT830N-23 | No            |    | 830                | SMD          | 3.5mm x 2.8mm | 50                        | 25                                | 16*                                             |
| SMT830N    | No            |    | 830                | SMD          | 3.5mm x 2.8mm | 50                        | 25                                | 64                                              |
| SMT840     | No            |    | 840                | SMD          | 3.5mm x 2.8mm | 50                        | 26                                | 62                                              |
| SMT850D-27 | No            |    | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 26                                | 29                                              |
| SMT850D-25 | No            |    | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 26                                | 20                                              |
| SMT850D-29 | No            |   | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 26                                | 45                                              |
| SMT850D    | No            |  | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 26                                | 61                                              |
| SMT850N-29 | No            |  | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 28                                | 45                                              |
| SMT850N-25 | No            |  | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 28                                | 20                                              |
| SMT850N-23 | No            |  | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 28                                | 13                                              |
| SMT850D-S1 | No            |  | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 26                                | 8                                               |
| SMT850D-23 | No            |  | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 26                                | 18                                              |
| SMT850N    | No            |  | 850                | SMD          | 3.5mm x 2.8mm | 50                        | 28                                | 63                                              |
| SMT870-23  | No            |  | 870                | SMD          | 3.5mm x 2.8mm | 50                        | 28                                | 14                                              |
| SMT870N    | No            |  | 870                | SMD          | 3.5mm x 2.8mm | 50                        | 28                                | 63                                              |
| SMT880     | No            |  | 880                | SMD          | 3.5mm x 2.8mm | 50                        | 25                                | 63                                              |
| SMT890     | No            |  | 890                | SMD          | 3.5mm x 2.8mm | 50                        | 15                                | 63                                              |
| SMT910-27  | No            |  | 910                | SMD          | 3.5mm x 2.8mm | 50                        | 13                                | 29                                              |
| SMT910     | No            |  | 910                | SMD          | 3.5mm x 2.8mm | 50                        | 13                                | 63                                              |
| SMT940D-25 | No            |  | 940                | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 20                                              |

| PRODUCT #    | DISCONTINUED? | DATASHEET                                                                           | WAVELENGTH<br>(NM) | PACKAGE TYPE | PACKAGE SIZE  | FORWARD<br>IF(MA) CURRENT | TOTAL<br>RADIATED<br>POWER PO(MW) | VIEWING<br>HALFANGLEΘ1/2<br>(DEGREE) |
|--------------|---------------|-------------------------------------------------------------------------------------|--------------------|--------------|---------------|---------------------------|-----------------------------------|--------------------------------------|
| SMT940D-S1   | No            |    | 940                | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 8                                    |
| SMT940-25    | No            |    | 940                | SMD          | 3.5mm x 2.8mm | 50                        | 15                                | 20*                                  |
| SMT940D-23   | No            |    | 940                | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 20                                   |
| SMT940-23    | No            |    | 940                | SMD          | 3.5mm x 2.8mm | 50                        | 15                                | 20                                   |
| SMT940D      | No            |    | 940                | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 61                                   |
| SMT940       | No            |    | 940                | SMD          | 3.5mm x 2.8mm | 50                        | 15                                | 64                                   |
| SMT970-27    | No            |    | 970                | SMD          | 3.5mm x 2.8mm | 50                        | 7                                 | 35                                   |
| SMT970-S1    | No            |    | 970                | SMD          | 3.5mm x 2.8mm | 50                        | 7                                 | 10                                   |
| SMT970-23    | No            |    | 970                | SMD          | 3.5mm x 2.8mm | 50                        | 7                                 | 14                                   |
| SMT970-29    | No            |    | 970                | SMD          | 3.5mm x 2.8mm | 50                        | 7                                 | 45*                                  |
| SMT970-25    | No            |    | 970                | SMD          | 3.5mm x 2.8mm | 50                        | 7                                 | 20*                                  |
| SMT970D-23   | No            |    | 970                | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 16*                                  |
| SMT970       | No            |   | 970                | SMD          | 3.5mm x 2.8mm | 50                        | 7                                 | 64                                   |
| SMT970D      | No            |  | 970                | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 62                                   |
| SMT980D-22   | No            |  | 980                | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 12                                   |
| SMT980D      | No            |  | 980                | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 62                                   |
| SMT1050GD-29 | No            |  | 1050               | SMD          | 3.5mm x 2.8mm | 50                        | 30                                | 43                                   |
| SMT1050GD-25 | No            |  | 1050               | SMD          | 3.5mm x 2.8mm | 50mA                      | 30mW                              | 26                                   |
| SMT1070D     | No            |  | 1070               | SMD          | 3.5mm x 2.8mm | 50                        | 10                                | 61                                   |
| SMT1300S-S1  | No            |  | 1300               | SMD          | 3.5mm x 2.8mm | 50                        | 9                                 | 12                                   |
| SMT1450S-S1  | No            |  | 1450               | SMD          | 3.5mm x 2.8mm | 50                        | 4.8                               | 10                                   |
| SMT1550S     | No            |  | 1550               | SMD          | 3.5mm x 2.8mm | 50                        | 2.7                               | 65                                   |
| SMT1550S-S1  | No            |  | 1550               | SMD          | 3.5mm x 2.8mm | 50                        | 3                                 | 9                                    |
| SMT1650S     | No            |  | 1650               | SMD          | 3.5mm x 2.8mm | 50                        | 1.7                               | 64                                   |
| SMT1650S-23  | No            |  | 1650               | SMD          | 3.5mm x 2.8mm | 50                        | 2                                 | 20                                   |
| SMT1650S-S1  | No            |  | 1650               | SMD          | 3.5mm x 2.8mm | 50                        | 2                                 | 10                                   |

## SMC

| PRODUCT # | DISCONTINUED? | DATASHEET                                                                         | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLE01/2 (DEGREE) |
|-----------|---------------|-----------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|
| SMC720    | No            |  | 720             | SMD          | 3mm x 2mm    | 20                     | -                           | -                              |
| SMC750    | No            |  | 750             | SMD          | 3mm x 2mm    | 50                     | -                           | -                              |
| SMC770    | No            |  | 770             | SMD          | 3mm x 2mm    | 50                     | -                           | -                              |
| SMC830    | No            |  | 830             | SMD          | 3mm x 2mm    | 50                     | -                           | -                              |
| SMC870    | No            |  | 870             | SMD          | 3mm x 2mm    | 50                     | -                           | -                              |
| SMC890    | No            |  | 890             | SMD          | 3mm x 2mm    | 50                     | -                           | -                              |
| SMC970B   | No            |  | 970             | SMD          | 3mm x 2mm    | 50                     | 3.6                         | 68                             |

## EDC

| PRODUCT #             | DISCONTINUED? | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE  | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLE01/2 (DEGREE) |
|-----------------------|---------------|-------------------------------------------------------------------------------------|-----------------|--------------|---------------|------------------------|-----------------------------|--------------------------------|
| EDC1050GD-11<br>00-S5 | No            |  | 1050            | SMD          | 3.5mm x 3.5mm | 1000                   | 750                         | 39                             |

## High Power Illuminator

| PRODUCT #    | DISCONTINUED? | DATASHEET                                                                           | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLE01/2 (DEGREE) |
|--------------|---------------|-------------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|
| L1070D-66-60 | No            |  | 1070            | Others       | Others       | 600                    | -                           | -                              |
| L1200D-66-60 | No            |  | 1200            | OTHERS       | OTHERS       | 600                    | -                           | -                              |
| L1300S-66-60 | No            |  | 1300            | Others       | Others       | 600                    | 120                         | 64                             |
| L1450S-66-60 | No            |  | 1450            | Others       | Others       | 600                    | 70                          | 64                             |
| L1550S-66-60 | No            |  | 1550            | Others       | Others       | 600                    | 55                          | 65                             |

## Stem

| PRODUCT #    | DISCONTINUED? | DATASHEET                                                                         | WAVELENGTH (NM) | PACKAGE TYPE | PACKAGE SIZE | FORWARD IF(MA) CURRENT | TOTAL RADIATED POWER PO(MW) | VIEWING HALFANGLEΘ1/2 (DEGREE) |
|--------------|---------------|-----------------------------------------------------------------------------------|-----------------|--------------|--------------|------------------------|-----------------------------|--------------------------------|
| L735-40M32   | No            |  | 735             | stem         | Others       | -                      | -                           | -                              |
| L750-40M32   | No            |  | 750             | stem         | Others       | -                      | -                           | -                              |
| L750-40M00   | No            |  | 750             | stem         | Others       | 50                     | 25                          | 35                             |
| L760-40M00   | No            |  | 760             | stem         | Others       | -                      | -                           | -                              |
| L760-40M32   | No            |  | 760             | stem         | Others       | 50                     | 23*                         | 12*                            |
| L3*890-40T32 | No            |  | 890             |              |              |                        |                             |                                |
| L1450S-31    | No            |  | 1450            | MOLD         | Φ3mm         | 50                     | 4.8                         | 10_21                          |
| L1450D-35K42 | No            |  | 1450            | Others       | Others       | 50                     | 3.3                         | 6                              |
| L1550S-35K42 | No            |  | 1550            | Others       | Others       | 50                     | 2.4                         | 9                              |

## Chip

| PRODUCT #  | DISCONTINUED? | DATASHEET                                                                           | CHIP DIMENSION | WAVELENGTH (NM) |
|------------|---------------|-------------------------------------------------------------------------------------|----------------|-----------------|
| C1030-30   | No            |  | 300μm x 300μm  | 1030            |
| C1050S-35P | No            |  | 320μm x 320μm  | 1050            |
| C1050-30   | No            |  | 300μm x 300μm  | 1050            |
| C1060-30   | No            |  | 300μm x 300μm  | 1060            |
| C1070-30   | No            |  | 300μm x 300μm  | 1070            |
| C1200-30   | No            |  | 300μm x 300μm  | 1200            |
| C1300-30   | No            |  | 300μm x 300μm  | 1300            |
| C1330-30   | No            |  | 300μm x 300μm  | 1330            |
| C1550-30   | No            |  | 300μm x 300μm  | 1550            |
| C1650-30   | No            |  | 300μm x 300μm  | 1650            |

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