



## Near Infrared LEDs

We offer near infrared LEDs from **Opto Diode Corporation**.

Opto Diode have ceased production of their graded bandgap 880nm devices and released a new generation of high efficiency 850nm technology.

ODC's range of high efficiency 850nm LEDs offer approximately twice the output of their 880nm graded bandgap technology when operating in DC and long pulse conditions. These devices are offered in a wide range of TO-style packages using both 100mA DC and 500mA DC chips.

A few examples of high power 880nm parts are offered using higher efficiency LED chips.

All of ODC's NIR LEDs offer the significant benefit of extremely high reliability under the harshest of operating conditions and a range of High Temperature devices are offered along with MIL-Standard Hi-Rel and Radiation Hard devices.

In addition to their range of standard 850nm LEDs ODC can supply custom single-and multi-wavelength near infrared devices from ~740nm to ~940nm so please [contact AP Technologies](#) to discuss your application.

	Part Number	Package Type	Beam Angle FWHM	Output	Rise/Fall Time
	<b>OD-850W</b>	TO-46, Window	80°	40mW	20ns
	<b>OD-850F</b>	TO-46, Lensed	8°	30mW	20ns
	<b>OD-850L</b>	TO-46, Lensed	35°	35mW	20ns
	<b>OD-850WHT</b>	TO-46, High temp, Window	80°	27.5mW	20ns
	<b>OD-850FHT</b>	TO-56, High temp, Lensed	8°	22mW	20ns
	<b>OD-850LHT</b>	TO-46, High temp, Lensed	35°	25.5mW	20ns
	<b>OD-110L</b>	TO-39, Lensed	7°	110mW	20ns
	<b>OD-110LISOLHT</b>	880nm, Isolated TO-39, Hi-Temp, Lensed	7°	110mW	20ns
	<b>OD-110W</b>	TO-39, Window	110°	140mW	20ns
	<b>OD-110WISOLHT</b>	880nm, Isolated TO-39, Hi-Temp, Window	110°	120mW	20ns
	<b>OD-250</b>	TO-39, Epoxy dome	110°	250mW	20ns
	<b>OD-663</b>	880nm, Isolated TO-66, Epoxy Dome	120°	170mW	1µs
	<b>OD-663-850</b>	Isolated TO-66, Epoxy Dome	120°	425mW	100ns
	<b>OD-666</b>	880nm, Isolated TO-66, Epoxy Dome	120°	330mW	2µs
	<b>OD-666-850</b>	Isolated TO-66, Epoxy Dome	120°	825mW	100ns
	<b>OD-669</b>	880nm, Isolated TO-66, Epoxy Dome	120°	500mW	3µs
	<b>OD-669-850</b>	Isolated TO-66, Epoxy Dome	120°	1250mW	200ns
	<b>Radiation Hard NIR LEDs</b>				
	<b>OD-800W</b>	810nm, TO46, Window	80°	3mW	60ns
	<b>OD-880F</b>	810nm, TO-46, Lensed	8°	3mW	60ns
	<b>OD-800L</b>	810nm, TO-46, Lensed	35°	3mW	60ns

### Quick Links: Light Emitting Diodes

- Ultra Violet
- UVC 255nm - 280nm
- UVB 280nm - 310nm

- › UVA 315nm - 420nm
- › Visible
- › Near Infrared

#### Quick Links: LED Systems

- › Fibre-Coupled LED Systems
- › Hyper Spectral Imaging
- › UV Curing
- › RadSense UV radiometer

#### Support: Light Emitting Diodes

- › LED Terminology
- › LED Operating Circuits
- › NIR LED Thermal Effects
- › Eye Safety - Visible/NIR
- › Eye Safety - UV



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