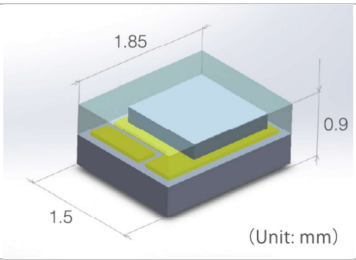
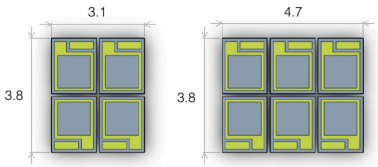
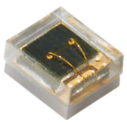
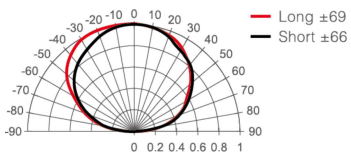
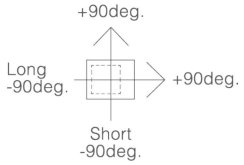
Products

Compact High Power SMD

EDCC Faimily（Compact High Power SMD）

The EDCC Family incorporates traditional high-power LED chips with a wide range of wavelength options, yet it achieves an impressive reduction in footprint of approximately 80% when compared to the previous small-sized EDC Family package. As a result, it offers a compact form factor (W1.5 x L1.85 x H0.9 mm) that closely resembles bare chips and is also compatible with CSP (Chip Scale Package) and other compact-sized packages.

Package area(mm) Example of LED placement		
Appearance		
Radiation Characteristics		

・Compact-sized package, comparable to CSP and high-power LED chips, facilitating easy customization in an SMD-type LED format.

・Package design optimized for high-density integration.

Comparison with conventional products

	SMBB Flat	EDC Flat	EDCC
Package area(mm)	5.0×5.2	3.5×3.5	1.5×1.85 80% reduction compared to EDC Family
Appearance			

	SMBB850DS-1100	EDC850DS-1100	EDCC850DS-1100	
Vf[V]@1A	3.2	3.2	3.2	
Vfp[V]@5A*	4.6	4.6	4.6	
Po[W]@1A	1.4	1.4	1.2	
Po[W]@5A*	5.6	5.6	5.3	
Rthjs[K/W]	9	11	21	
ϕ 1/2[deg.]	64	66	Long**	69
			Short**	69

* Pulse Condition: On Time 10us, Duty 1%

** Radiation Characteristics of EDCC Package

Applications

The EDCC Family is suitable for a wide range of applications that require high brightness, high output, and the combination of multiple wavelengths, including but not limited to:

・Machine Vision

・Optical Sorting

・Plant Growth

・Security

・Surveillance Cameras

Minimum Order Quantity

MOQ: 1000

For initial evaluation purposes, we will deal with less than MOQ only if we have it in stock. Please feel free to contact us.

Parts Numbering

Example: EDCC 850 DS-1 100
(a) (b) (c) (d) (e)

(a) EDCC : Package Family Name

(b) 850 : Peak Wavelength. (unit:nm. From 365nm to 1,900nm)

(c) DS : Structure Type of LED Chips (Restrictive Option)

(d) 1 : Number of Chips (1: 1 Chip)

(e) 100 : LED Chip Dimension (100: 1,000um * 1,000um, 130: 1,300um * 1,300um)

Products Search

Inquiry form

Products › LED › epitex series › EDCC Family (Compact High Power SMD)

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