Surface Mount High Output Infrared LEDs



Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Forward current	lF	100	mA
Reverse voltage	VR	5	V
Power dissipation	P□	180	mW
Operating temperature	Topr	-25~+85	°C
Storage temperature	Tstg	-40~+85	°C

Applications

Light source for sensors (proximity sensors, signal transmission applications)

Features

- 2) Higt compact, low-profile
 2) Higt output, over a narrow angle
 3) Exellent temperature property
 4) Long life, high reliability
 5) Original optical tecnology is ultra-high-output surface mount infrared LEDs.

Electrical and optical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	_	1.7	2.5	٧	I _F =100mA
Reverse current	la	-	-	15	μΑ	V _R =5V
Peak light emitting wavelength	λpeak	_	870	_	nm	I=100mA
View angle	θ1/2	_	±20	_	deg.	_
Radiant intensity	lε	10	-	100	mW/sr	I _F =100mA

^{*} Non-coherent infrared light emiting diode used.

Electrical and optical characteristics curves

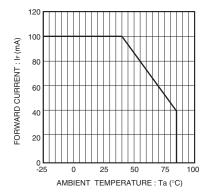


Fig.1 Forward current fall off

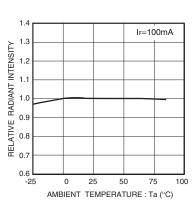


Fig.4 Relative radiant vs. Ambient temperature

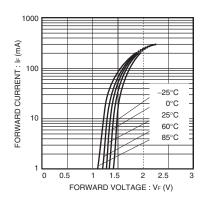


Fig.2 Forward current vs. Forward voltage

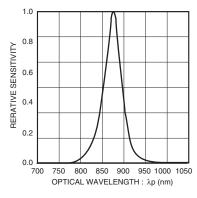


Fig.5 Spectrum data

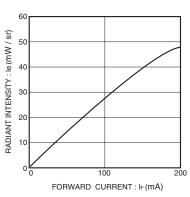


Fig.3 Radiant intensity vs. Forward current

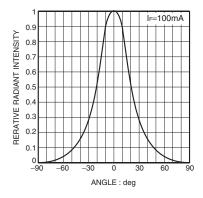
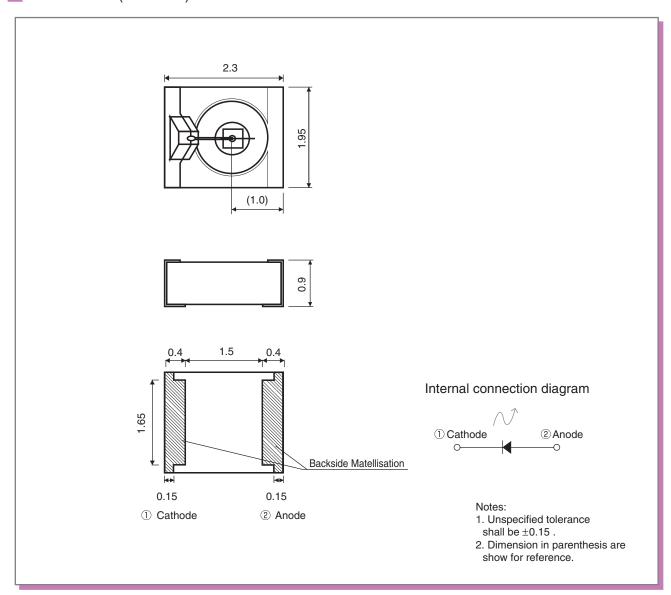
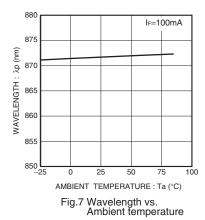


Fig.6 Radiant intensity

Dimensions (Unit:mm)





Notes

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