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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Surface Mount High Output Infrared LEDs



Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Forward current	lF	100	mA	
Pulse forward current ^{*1}	I FP	1	А	
Reverse voltage	VR	5	V	
Power dissipation	P□	180	mW	
Operating temperature	Topr	-25 to +85	°C	
Storage temperature	Tstg	-40 to +85	°C	

^{*1} Pulse width 0.1msec,duty ratio1%

Applications

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

Features

- 1) 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	V	I=100mA
Reverse current	IR	_	-	15	μΑ	V _R =5V
Peak light emitting wavelength	λpeak	_	870	_	nm	I==100mA
Spectral line half width	Δλ	-	35	_	nm	I=100mA
View angle	θ1/2	_	±20	_	deg.	_
Radiant intensity	lε	20	-	100	mW/sr	I=100mA

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

Electrical and optical characteristics curves

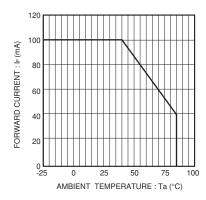


Fig.1 Forward current fall off

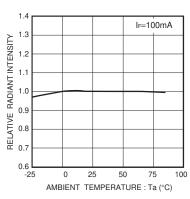


Fig.4 Relative radiant vs. Ambient temperature

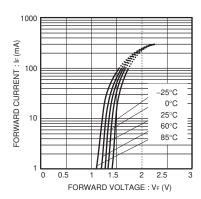


Fig.2 Forward current vs. Forward voltage

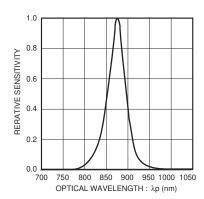


Fig.5 Spectrum date

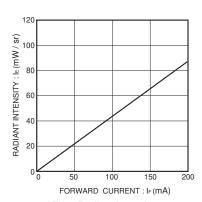


Fig.3 Radiant intensity vs. Forward current

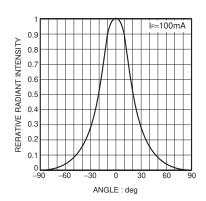
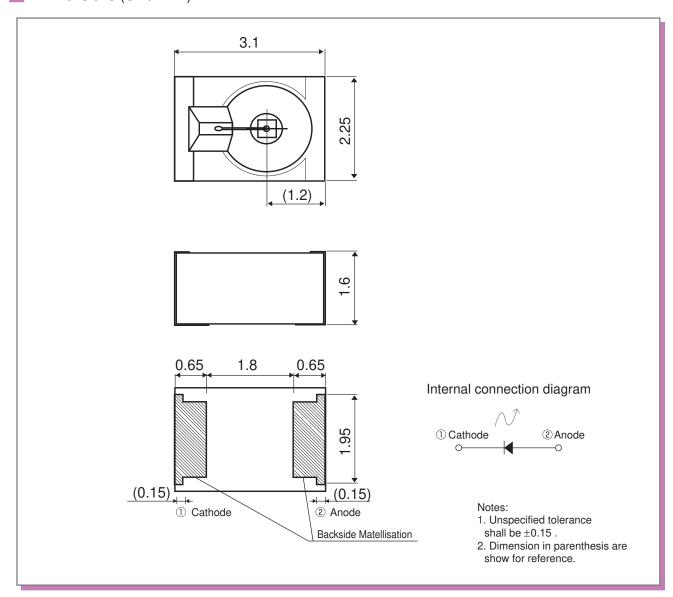
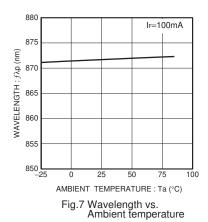


Fig.6 Radiant intensity

^{*} This product is not designed to be protected against electromagnetic wave





Notes

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