imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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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SIM-030ST

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}	FP	1	A
Reverse voltage	VR	5	V
Power dissipation	PD	180	mW
Operating temperature	Topr	-25 to + 85	°C
Storage temperature	Tstg	-40 to + 85	°C

Electrical and optical characteristics (Ta=25°C)

*1 Pulse width 0.1msec,duty ratio1%

Applications

Light source for sensors signal transmission applications)

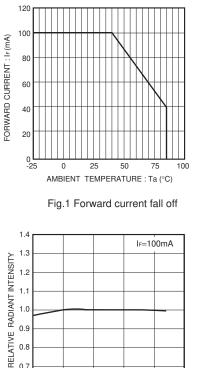
Features

- Higt compact, low-profile
 Higt output, over a narrow angle
 Exellent temperature property
 Long life,high reliability
 Original optical tecnology is

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	-	1.7	2.5	V	IF=100mA
Reverse current	IR	-	-	15	μΑ	V _R =5V
Peak light emitting wavelength	λpeak	-	870	-	nm	IF=100mA
Spectral line half width	Δλ	-	35	-	nm	IF=100mA
View angle	θ1/2	-	±20	-	deg.	-
Radiant intensity	le	10	-	100	mW/sr	IF=100mA

* Non-coherent infrared light emiting diode used.

This product is not designed to be protected against electromagnetic wave.



1.0

0.9

0.8

0.7

0.6 L -25

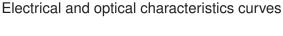
0 25 50

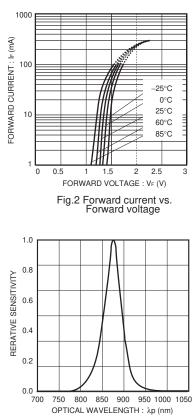
Ambient temperature

AMBIENT TEMPERATURE : Ta (°C) Fig.4 Relative radiant vs.

75

100





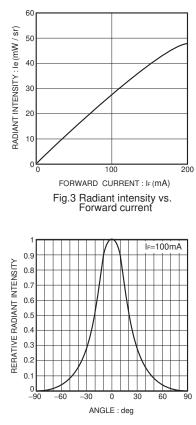
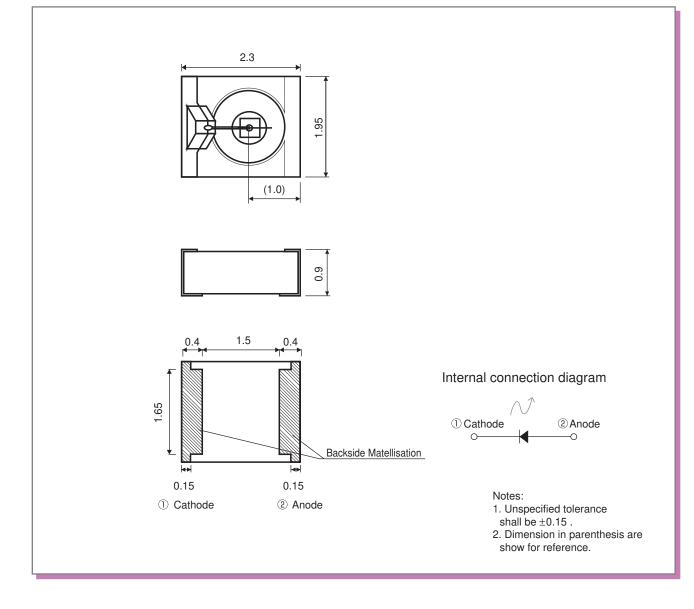
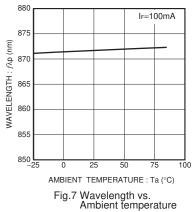


Fig.5 Spectrum data

Fig.6 Radiant intensity





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