# 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 <sup>*1</sup>	<b>I</b> 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

\*1 Pulse width 0.1msec,duty ratio1%

## **Applications**

Light source for sensors signal transmission applications)

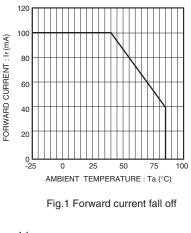
### Features

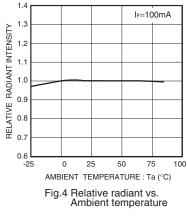
- Higt compact, low-profile
  Higt output, over a narrow angle
  Exellent temperature property
  Long life,high reliability
  Original optical tecnology is
- ultra-high-output surface mount

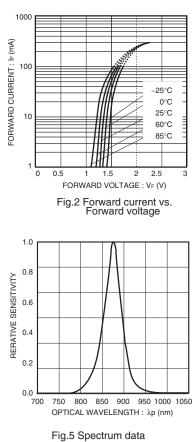
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	_	1.7	2.5	V	IF=100mA
Reverse current	IR	-	-	15	μΑ	V <sub>R</sub> =5V
Peak light emitting wavelength	λреак	_	870	-	nm	IF=100mA
Spectral line half width	Δλ	_	35	-	nm	IF=100mA
View angle	θ1/2	-	±20	-	deg.	-
Radiant intensity	le	10	-	100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

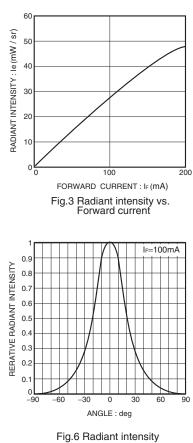
\* Non-coherent infrared light emiting diode used.

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



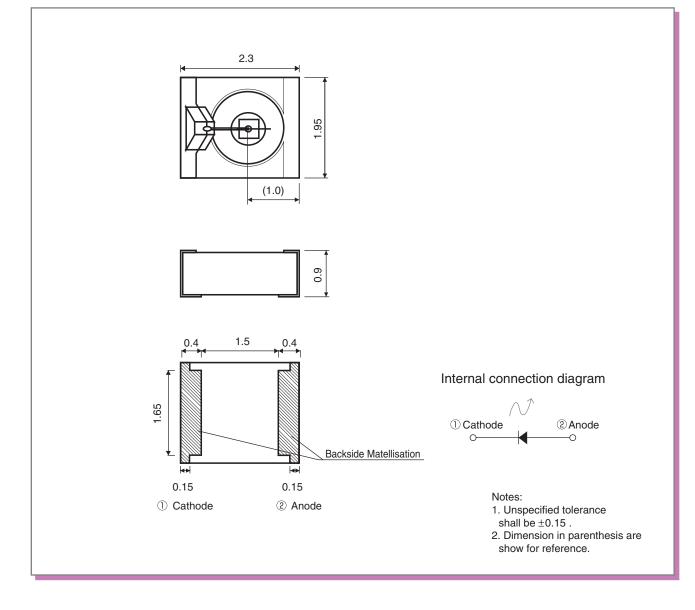


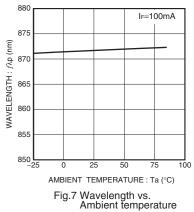




Electrical and optical characteristics (Ta=25°C)

Electrical and optical characteristics curves





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