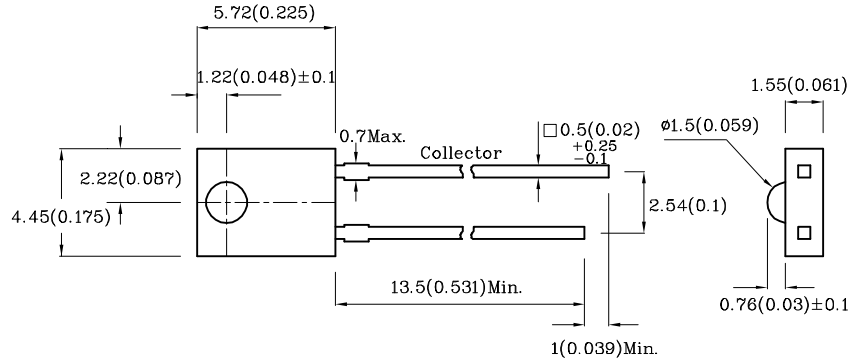


Features

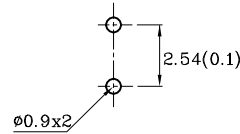
- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Water clear lens
- Halogen-free
- RoHS Compliant



Package Schematics



Recommended PCB Layout



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
V _{BR CEO}	Collector-to-Emitter Breakdown Voltage	30	-	-	V	I _C = 100μA E _e = 0mW/cm ²
V _{BR ECO}	Emitter-to-Collector Breakdown Voltage	5	-	-	V	I _E = 100μA E _e = 0mW/cm ²
V _{CE(SAT)}	Collector-to-Emitter Saturation Voltage	-	-	0.8	V	I _C = 2mA E _e = 20mW/cm ²
I _{CEO}	Collector Dark Current	-	-	100	nA	V _{CE} = 10V E _e = 0mW/cm ²
t _r	Rise Time (10% to 90%)	-	15	-	μs	V _{CE} = 5V I _C = 1mA R _L = 1KΩ
t _f	Fall Time (90% to 10%)	-	15	-	μs	
I _(ON)	On State Collector Current	0.35	0.8	-	mA	V _{CE} = 5V E _e = 1mW/cm ² λ = 940nm
λ _{0.1}	Range of Spectral Bandwidth	420	-	1120	nm	-
λ _p	Wavelength of Peak Sensitivity	-	940	-	nm	-

Absolute Maximum Ratings at TA=25°C

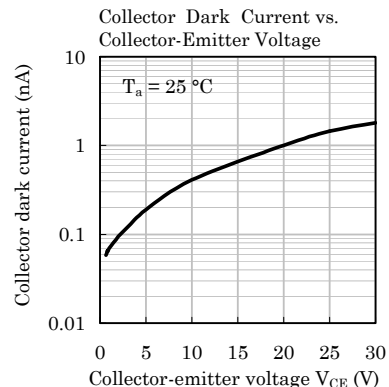
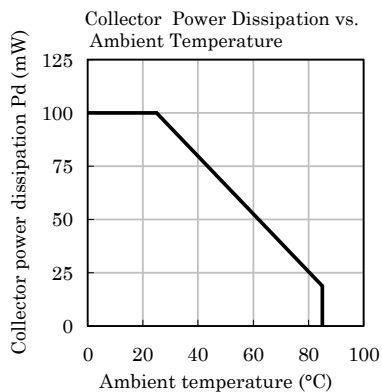
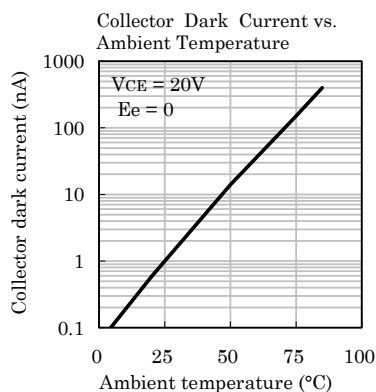
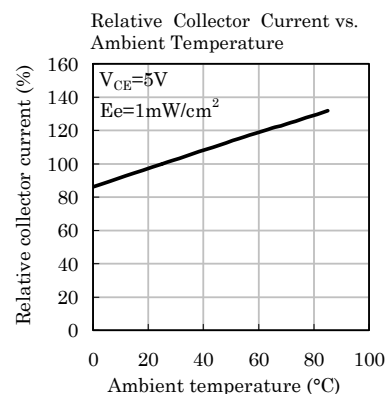
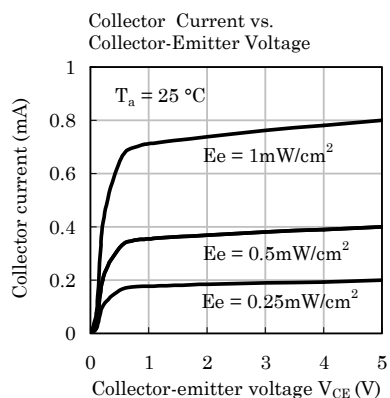
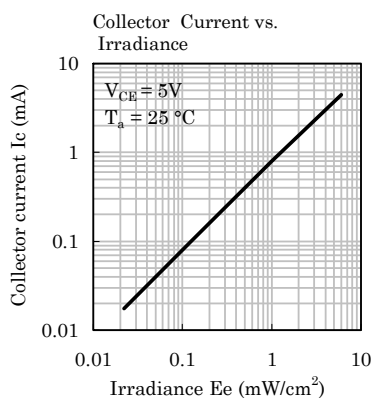
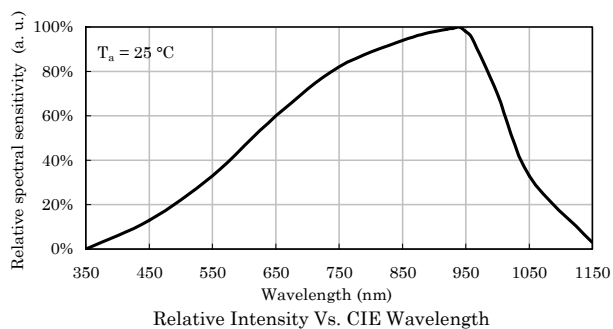
Parameter	Maximum Ratings
Collector-to-Emitter Voltage	30V
Emitter-to-Collector Voltage	5V
Power Dissipation at (or below) 25°C Free Air Temperature	100mW
Operating / Storage Temperature Range	-40 ~ +85°C
Lead Solder Temperature (>5mm for 5sec)	260°C

A Relative Humidity between 40% and 60% is recommended in

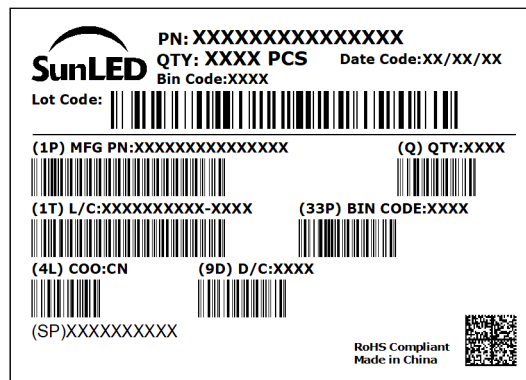
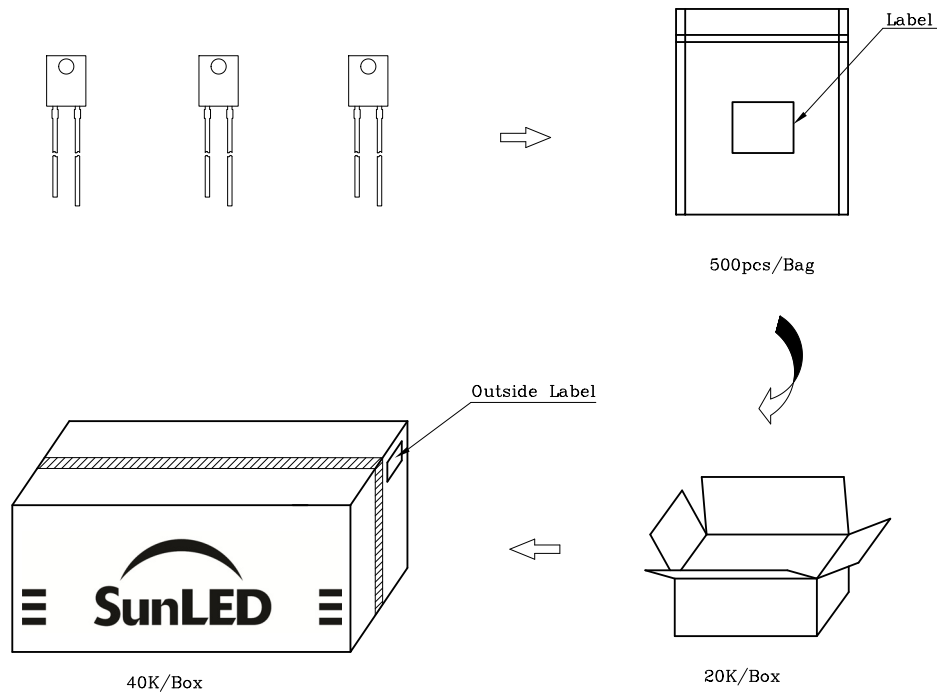
ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Nov 27,2025

XDSA4439 V7 Layout: Maggie L.



PACKING & LABEL SPECIFICATIONS



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2. Contents within this document are subject to improvement and enhancement changes without notice.
3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet.
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