

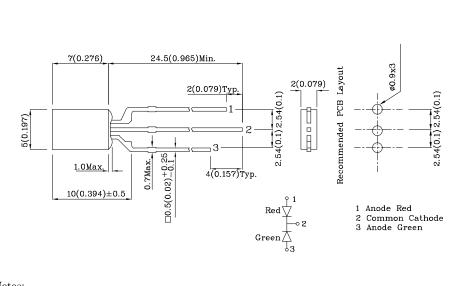
Part Number: XSUGR47M

2x5mm BI-COLOR INDICATOR LAMP

Features

- Radial / Through hole package
- \bullet Reliable & robust
- Low power consumption
- Available on tape and reel
- RoHS Compliant





Notes:

1. All dimensions are in millimeters (inches).

Package Schematics

2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		Red (GaAsP/ GaP)	Green (GaP)	Unit	
Reverse Voltage	V_{R}	5	5	V	
Forward Current	$I_{\rm F}$	30	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	160	140	mA	
Power Dissipation	P_{D}	75	62.5	mW	
Operating Temperature	$T_{\rm A}$	-40 ~	°C		
Storage Temperature	Tstg	-40 ~			
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds				
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds				

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)

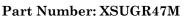
Operating Characteristics (T _A =25°C)		Red (GaAsP/ GaP)	Green (GaP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	2	2.2	v
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v
Reverse Current (Max.) (V _R =5V)	\mathbf{I}_{R}	10	10	μА
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λP	627*	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	617*	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle\lambda$	45	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XSUGR47M	Red	GaAsP/GaP	White Diffused –	8 4*	19 9*	627*	140°
	Green	GaP		3 3*	8 8*	565*	

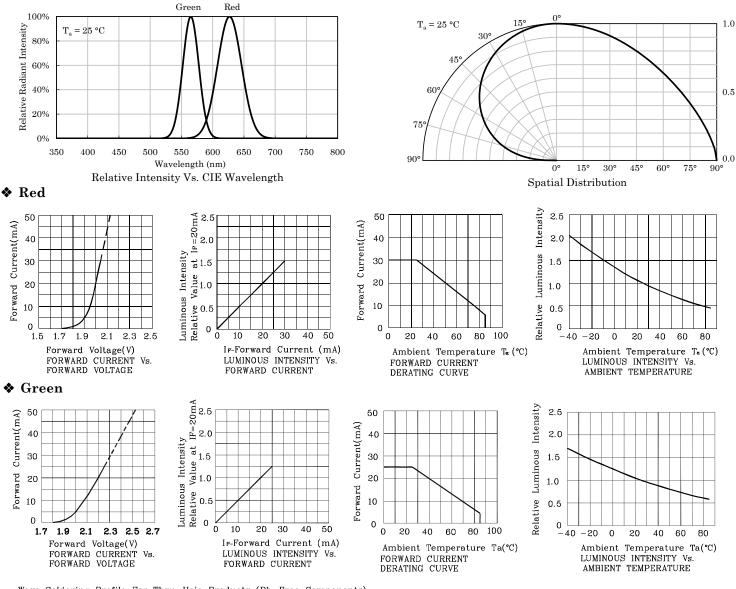
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Feb 18,2019

XDSA2604 V11-X Layout: Maggie L.



2x5mm BI-COLOR INDICATOR LAMP

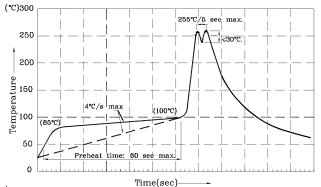


Remarks:

1. Wavelength: +/-1nm

3. Forward Voltage: +/-0.1V

Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



Notes:

Notes: 1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C2. Peak wave soldering temperature between $245°C \sim 255°C$ for 3 sec (5 gas max)

(5 sec max).

- (a) See first).
 (b) see first).
 (c) apply stress to the epoxy resin while the temperature is above 85°C.
 (c) Fixtures should not incur stress on the component when mounting and during soldering process.
 (c) SAC 305 solder alloy is recommended.
 (c) No more than one wave soldering pass.

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If special sorting is required (e.g. binning based on forward voltage,

luminous intensity / luminous flux, or wavelength),

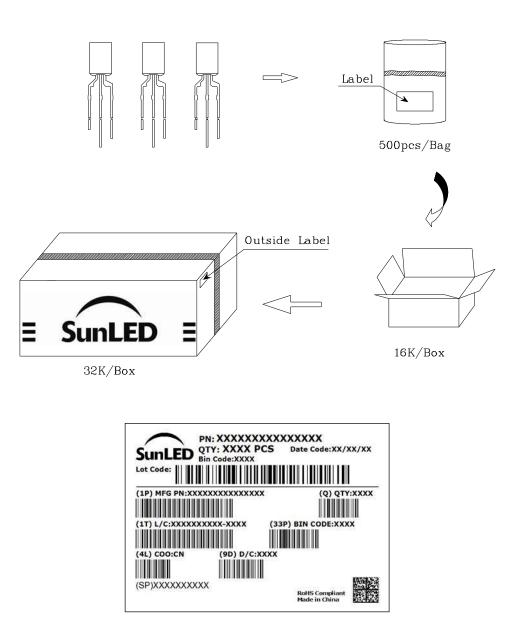
2. Luminous Intensity / Luminous Flux: +/-15%

the typical accuracy of the sorting process is as follows:

Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS



TERMS OF USE

- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 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.
- User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please
- consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
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