

Peak Emission Wavelength: 650nm

This 650nm RCLED is designed for applications requiring high accuracy and precision. It has a 50um aperture and is packaged in a 2.1mm square SMD black package with black encapsulation.

FEATURES

- > 2.1mm square SMD Package
- > Emitting Window Diameter 50um
- > High Reliability

APPLICATIONS

- > Rangefinder
- > Red Dot Scopes
- > Optical Encoder



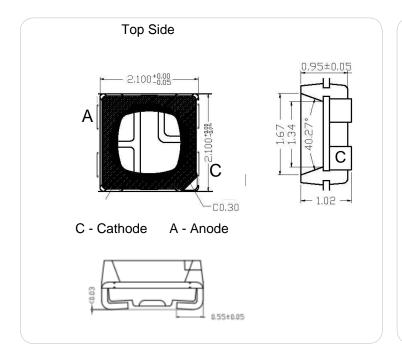
Absolute Maximum Ratings (Ta=25°C)					
ITEMS	SYMBOL	RATINGS	UNIT		lead-free ROH
Forward Current (DC)	IF	5	mA		
Reverse Voltage (@10uA)	VR	5	V		
Operating Temperature Range	Topr	-20 ~ +70	°C		
Storage Temperature Range	Tstg	-40 ~ +100	°C		

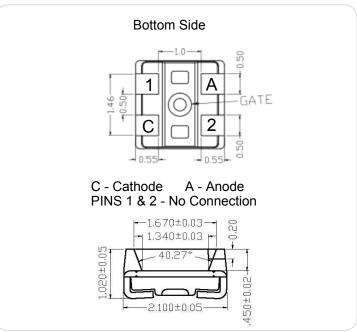
Note: Care is required during assembly and when handling the component so as to not damage the surface of the LED. This may affect the appearance and optical performance.

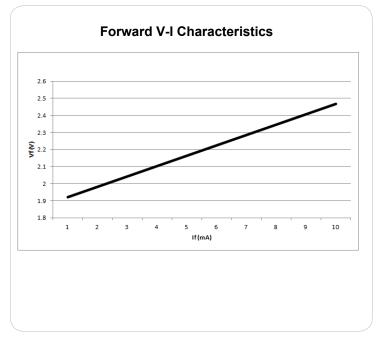
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ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=5mA		2.02		V
Power Output	PO	IF=5mA		365		uW
Forward Voltage	VF	IF=2mA		1.90		V
Power Output	PO	IF=2mA		175		uW
Forward Voltage	VF	IF=1mA		1.85		V
Power Output	PO	IF=1mA		100		uW
Reverse Current	IR	VR=5V			10	μΑ
Peak Wavelength	λр	IF=5mA	640	650	660	nm
Dominant Wavelength	λd	IF=5mA	635	645	655	nm
Spectral Line Half Width	Δλ	IF=5mA		25		nm
Viewing Angle	θ	IF=5mA		110		deg
Breakdown Voltage	Vb			-10		V

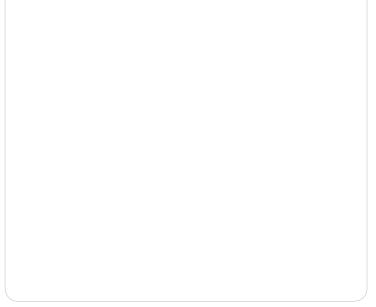
2023-03-16







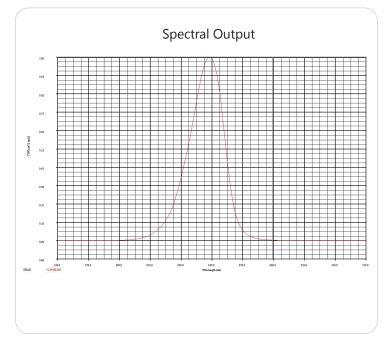


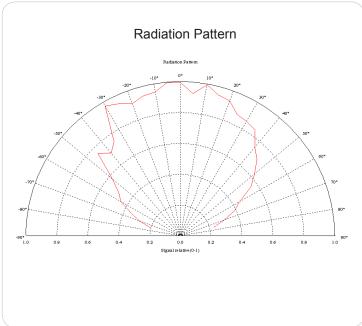


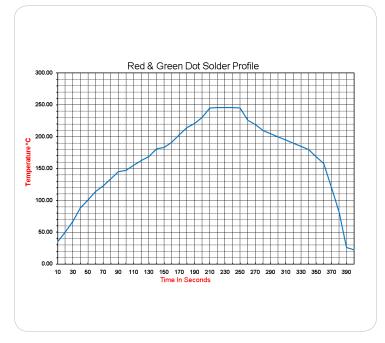
Unit: mm, Tolerance: ±0.2

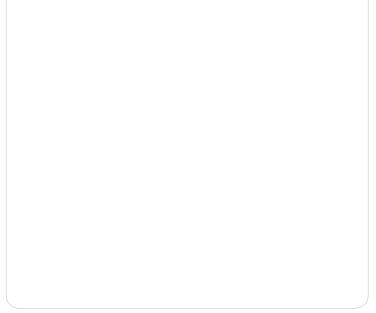
2023-03-16











The information contained herein is subject to change without notice.



Point Source Emitter

Product No: MTSP-1404

Caution: This bag Contains MOISTURE SENSITIVE DEVICES LEVEL 5A

- Calculated shelf life in sealed bag: 12 months at < 40 °C and < 90% humidity</p>
- 2 Peak Package Temperature: 80°C
- After bag is opened, devices that will be subjected to reflow solder or other high temperature processes must be (a) mounted within 24 hours of factory conditions ≤30°C/60% (b) Stored at <10% RH
- 4 Devices require bake before mounting if humidity indicator card is >10% and/or conditions 3a or 3b are not met.
- 5 Recommended baking: 70°C for 24 hours
- 6 Caution when handling the component. Do not touch the surface or expose to dust, particulates or other forms of contamination. Surface is easily scratched, marred or damaged which can affect the appearance and optical performance.
- 7 If cleaning is required, do not use harsh or unspecified chemicals. DI water or isopropyl alcohol is recommended. Please allow to dry at room temperature for 15 minutes before use. Extreme care when cleaning is required so as not to damage the LED surface.

Caution: Handling this product

- 1 Caution when handling the component. Do not touch the surface or expose to dust, particulates or other forms of contamination. Surface is easily scratched, marred or damaged which can affect the appearance and optical performance.
- 2 If cleaning is required, do not use harsh or unspecified chemicals. DI water or isopropyl alcohol is recommended. Please allow to dry at room temperature for 15 minutes before use. Extreme care when cleaning is required so as not to damage the LED surface.

NOTICE

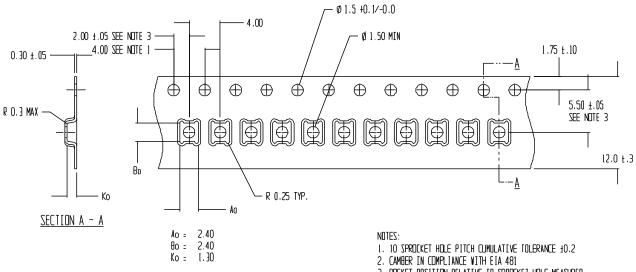
The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product





Tape and Reel

This part is also available on Tape and Reel configuration Reel Diameter - 7.0"



3. POCKET POSITION RELATIVE TO SPROCKET HOLE MEASURED AS TRUE POSITION OF POCKET, NOT POCKET HOLE