



Point Source Emitter

Product No: MTSP-1179

Peak Emission Wavelength: 650nm

This 650nm RCLED is designed for applications requiring high accuracy and precision. It has a 80um aperture and is packaged in a 2.1mm square SMD black package with black encapsulation.

FEATURES

- > 2.1mm square SMD Package
- > Emitting Window Diameter 80m
- > High Reliability

APPLICATIONS

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



Absolute Maximum Ratings (Ta=25°C)					
ITEMS	SYMBOL	RATINGS	UNIT		lead-free ROMS
Forward Current (DC)	IF	30	mA		
Reverse Voltage	VR	5	V		
Operating Temperature Range	Topr	-20 ~ +70	°C		
Storage Temperature Range	Tstg	-40 ~ +100	°C		

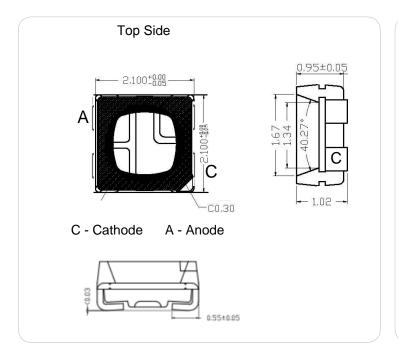
Electrical & Optical Characteristics (Ta = 25°C)									
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT			
Forward Voltage	VF	IF=5mA	1.9		2.2	V			
Peak Wavelength	λр	IF=5mA		650		nm			
Dominant Wavelength	λd	IF=5mA		640		nm			
Spectral Line Half Width	Δλ	IF=5mA		21		nm			
Power Output	Ро	IF=5mA	250	300	450	uW			
Min Light Intensity @ Min Current/Voltage		If=0.25mA, Vf=1.7V		5		uW			
Max Light Intensity @ Max Curr	ent/Voltage	If=30mA, Vf=2.7V		1000		uW			
Minimum Current (Lighting)		10			uA				

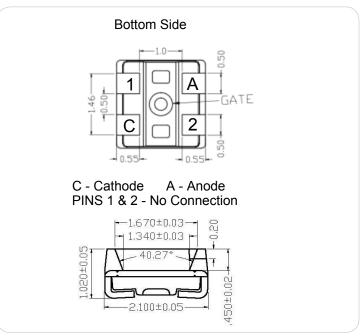
Note: Care is required during assembly and when handling the component so as to not damage the surface of the LED. This may affect the appearance and optical performance.

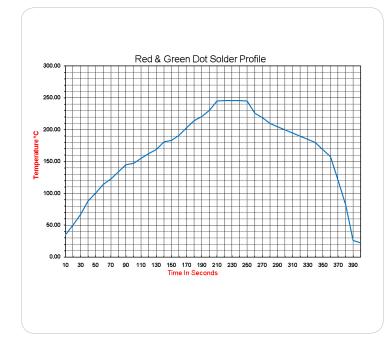
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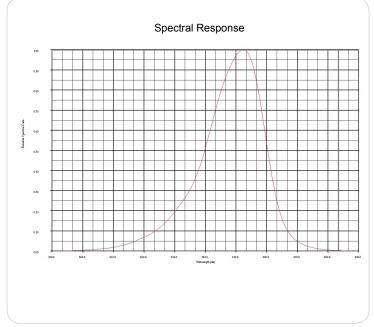


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Unit: mm, Tolerance: ±0.2

2024-11-20





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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.