

Peak Emission Wavelength: 650nm

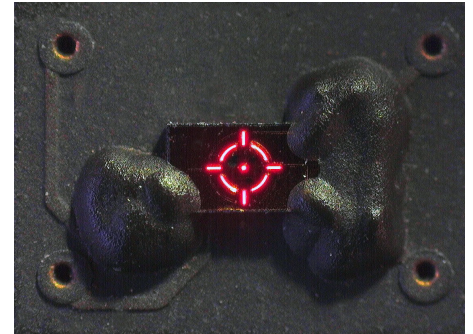
This 650nm RCLED is designed for applications requiring high accuracy and precision. It has a reticle aperture and is packaged in a 3.0mm x 4.0mm SMD black package.

FEATURES

- > Frameless SMD
- > Dot Emitting Area: \varnothing 25um
- > Other configurations available on request

APPLICATIONS

- > Rangefinder
- > Red Dot Scopes

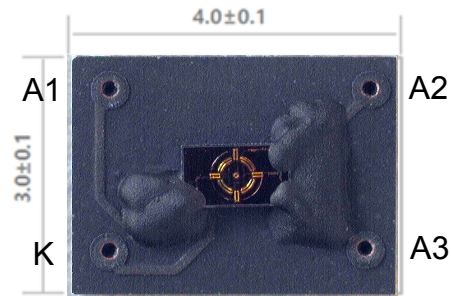


Absolute Maximum Ratings (Ta = 25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Continuous Forward Current	If	10	mA
Continuous Reverse Voltage	Vr	5V (@10uA)	V
Storage Temperature	Tstg	-40 to 100	°C
Operating Temperature	Topr	-20 to 70	°C
Lead Solder Temperature	Tls	260 °C, 5 sec	

Electrical & Optical Characteristics (Ta = 25°C)

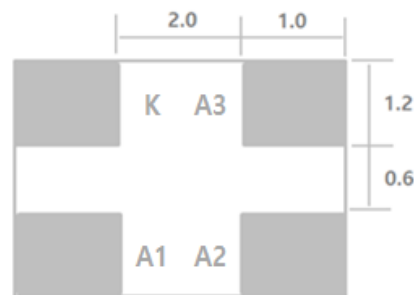
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Total Radiant Flux, Reticle area	Φ_{o1}	If=5mA	--	200	--	μ W
Total Radiant Flux, Circle area	Φ_{o2}	If=5mA	--	200	--	μ W
Total Radiant Flux, Dot area	Φ_{o3}	If=5mA	--	150	--	μ W
Peak Wavelength	λ_p	If=5mA	635	650	665	nm
Forward Current	If		0.01	--	10	mA
Forward Voltage, Reticle area	Vf1	If=5mA	--	1.9	--	V
Forward Voltage, Circle area	Vf2	If=5mA	--	1.9	--	V
Forward Voltage, Dot area	Vf3	If=5mA	--	2.1	--	V



TOP VIEW



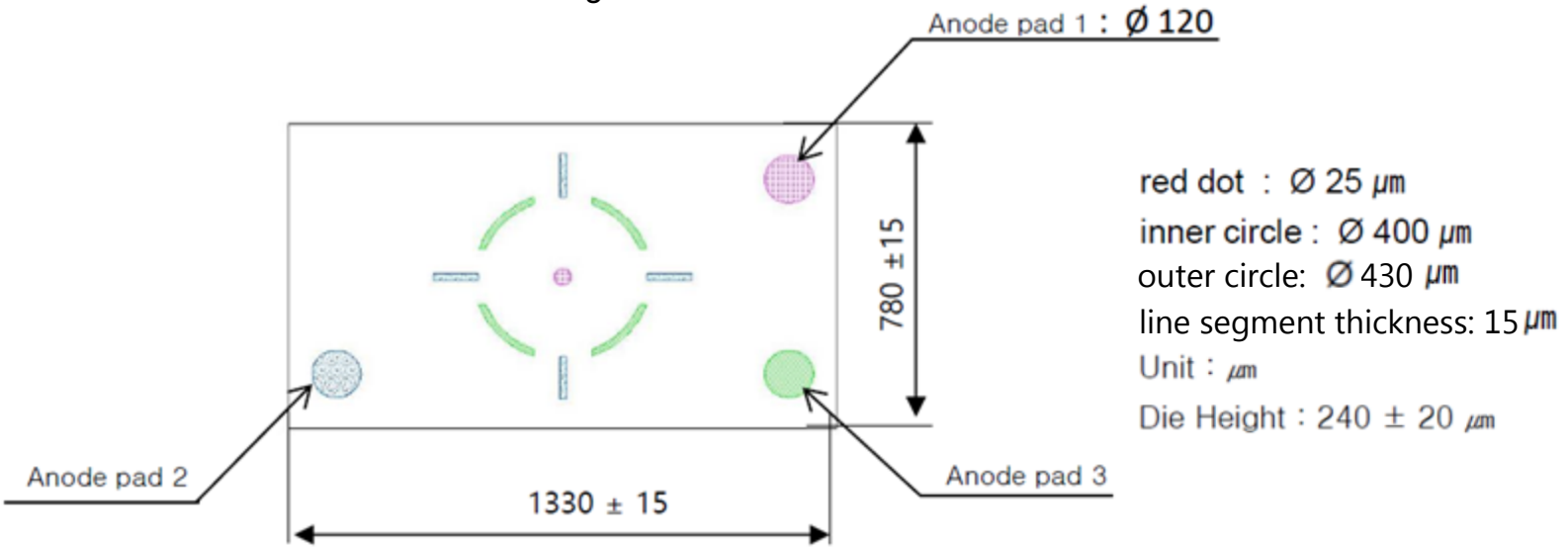
SIDE VIEW



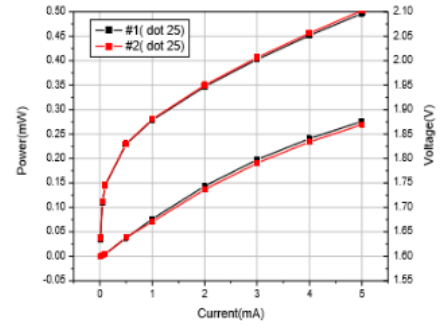
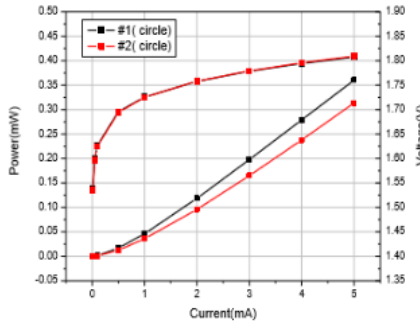
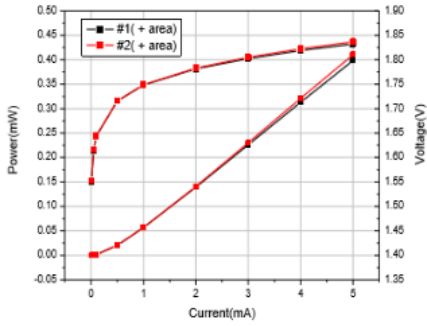
BOTTOM VIEW

MTSP-1334	
Number	Function
A1	Reticle area
A2	Dot area
A3	Circle area
K	Cathode

Die Diagram



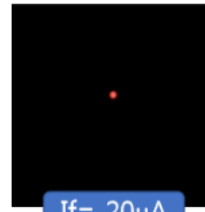
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.



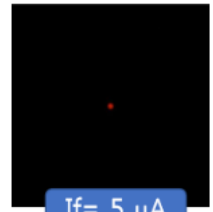
If = 20µA



If = 20µA



If = 20µA



If = 5 µA



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