

IR LASER SMT LED

P/N: RHI-1285-S000



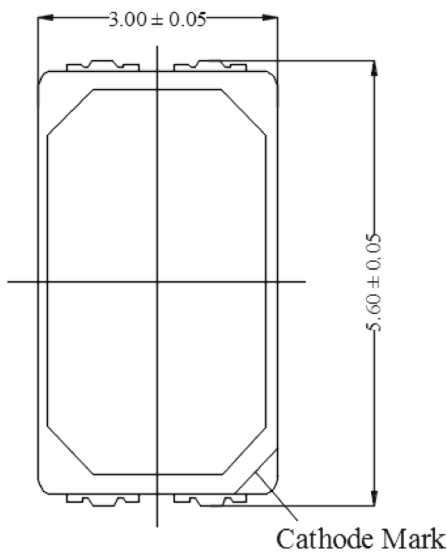
■ Features

1. Peak wavelength at 25°C : 650 nm (typical)
2. Standard optical power output : 5mW (CW)
3. 5630 Packaged
4. High temperature operation
5. single mode lasing

■ Applications

1. Laser Module
2. Laser Pointer
3. Medical application

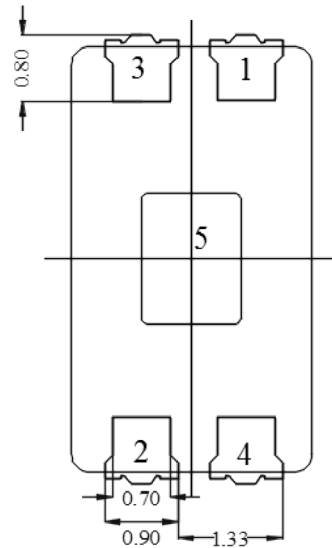
■ External dimensions(Unit : mm) 5.60×3.00×0.80



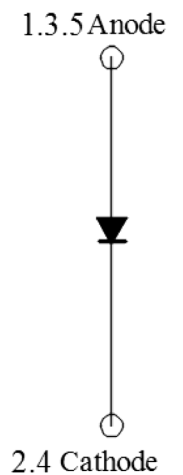
Top View



Front View



Bottom View

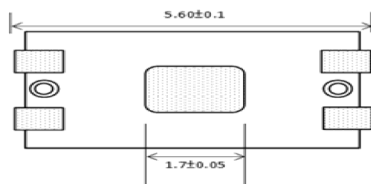


Notes:

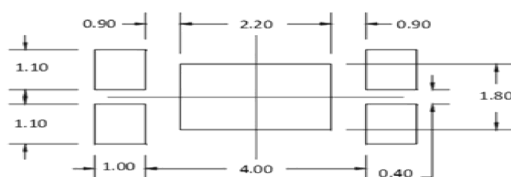
1. Drawings are not to scale
2. All dimensions are all in millimeter
3. All dimensions without tolerance are for reference only

Soldering Conditions(Reference Outline)

Soldering pad pattern

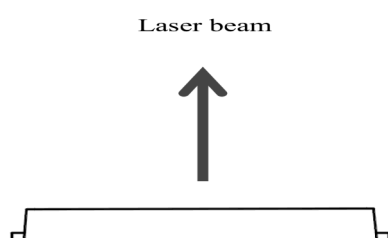


Metal solder stencil aperture



NOTE : All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

The drawing above shows the recommended solder pad layout on Printed Circuit Board (PCB).

Emission direction

Absolute Maximum Ratings(Tc=25°C)

Parameter	Symbol	Rating	Unit
Optical Output	Po	5	mW
Reverse Voltage	Vr	2	V
Operating Temperaturep· Casep,	Top	-10~+70	°C
Storage Temperature	Tstg	-40~+85	°C

Electrical and Optical Characteristics(Tc=25°C)

Electrical and Optical Characteristics (T _a = 25 °C)							
Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		I _{th}	P _o =5mW	-	12	25	mA
Operating Current		I _{op}	P _o =5mW	-	17	25	mA
Operating Voltage		V _{op}	P _o =5mW	-	2.2	2.5	Volts
Slope Efficiency		η	P _o =1.5-5mW	0.7	1	-	mW/mA
Beam Divergence (FWHM)	Parallel	θ _∥	P _o =5mW	5	7.5	12	deg.
	Perpendicular	θ _⊥	P _o =5mW	30	36	42	deg.
Lasing Wavelength		λ	P _o =5mW	640	650	660	nm

© $\theta_{//}$ and $\theta_{\perp}$ are defined as the angle within which the intensity is 50% of the peak value.

Quality Notice

This device is still under product development.

Typical characteristic curves
Optical Output Power v.s. Forward Current
