

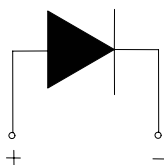
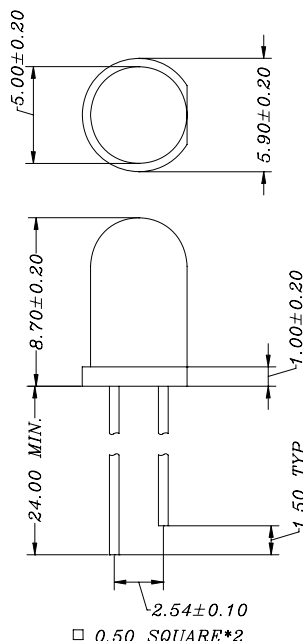


SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

Part No. : SLR-050D10-030

Package Dimensions



- Notes: 1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm(.04") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.

Absolute Maximum Ratings at TA=25°C

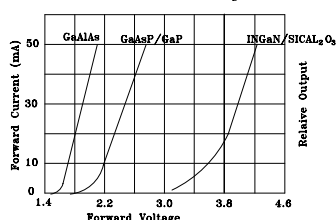
Electrical / Optical Characteristics at TA=25°C

Parameter	Maximum Rating	Unit
Power Dissipation	60	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	mA
Continuous Forward Current	25	mA
Operating Temperature Range	-20°C to +80°C	
Storage Temperature Range	-55°C to +100°C	
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds	

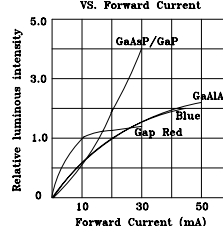
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	IV	1	7		mcd	IF = 5mA
Viewing Angle	2θ 1/2		45		deg	IF = 5mA
Peak Emission Wavelength	λP		639		nm	IF = 5mA
Dominant Wavelength	λd	620	631	639	nm	IF = 5mA
Spectral Line Half-Width	$\Delta \lambda$		20		nm	IF = 5mA
Forward Voltage	VF		1.9	2.4	V	IF = 5mA
Reverse Current	IR			100	μA	VR = 5V

TYPICAL ELECTRON-OPTICAL CHARACTERISTIC CURVES 25°C Free Air Temperature Unless Otherwise Specified

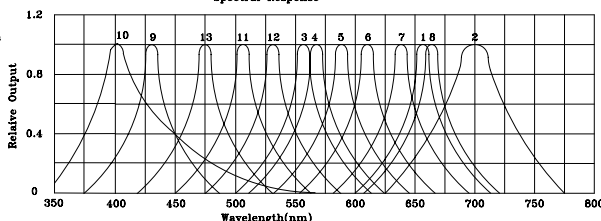
Forward Current VS. Forward Voltage



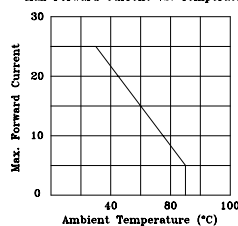
Relative Luminous Intensity VS. Forward Current



Spectral Response



Max Forward Current VS. Temperature



- 1: GaAsP red
- 2: GaP red
- 3: Yellow green
- 4: Green
- 5: Yellow
- 6: Amber
- 7: Orange
- 8: Super Bright red
- 9: Blue
- 10: Purple
- 11: Pure green
- 12: Bluish-Green
- 13: Blue