

FEATURES

- Metal package for heatsinking
- Very narrow output beam

Dimensions are nominal values in inches unless otherwise specified.



ELECTRO-OPTICAL CHARACTERISTICS AT 25°C

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, P_o	$I_F = 300\text{mA}$	18	23		mW
Luminous Intensity ¹	$I_F = 300\text{mA}$, 2.0° FOV		65		cd
Radiant Intensity ¹ , I_e	$I_F = 300\text{mA}$		80		mW/sr
Peak Emission Wavelength, λ_p	$I_F = 50\text{mA}$		620		nm
Spectral Bandwidth at 50%, $\Delta\lambda$			25		nm
Half Intensity Beam Angle, θ			7		Deg
Forward Voltage, V_F	$I_F = 300\text{mA}$		2.2	2.5	Volts
Reverse Breakdown Voltage, V_R	$I_R = 10\mu\text{A}$	2	5		Volts

ABSOLUTE MAXIMUM RATINGS AT 25°C CASE

Power Dissipation ²	750mW
Continuous Forward Current ²	300mA
Reverse Voltage	2V
Lead Soldering Temperature (1/16" from case for 10sec)	260°C

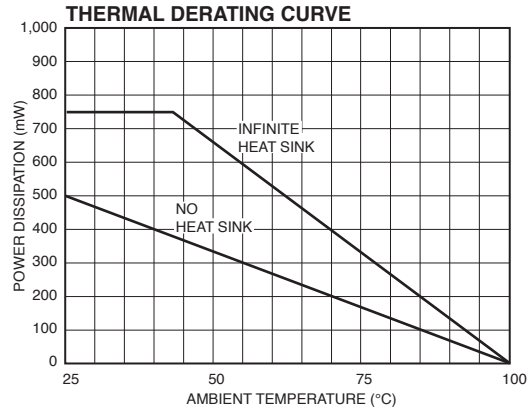
THERMAL PARAMETERS

Storage and Operating Temperature Range	-40°C TO 100°C
Maximum Junction Temperature	100°C
Thermal Dissipation Junction-Case	60°C/W Typical
Thermal Dissipation Junction-Air	150°C/W Typical

¹ As measured within a 2.0° field of view.

² Derate per appropriate thermal dissipation value above 25°C.

MAXIMUM RATINGS



TYPICAL CHARACTERISTICS

