



FEATURES

- Narrow beam angle
- Convenient TO-39 package with leads
- Hermetic package

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	$I_F = 350\text{mA}$	80	170		mW
Dominant Emission Wavelength, λ_d	$I_F = 350\text{mA}$	465	470	475	nm
Spectral Bandwidth at 50%, $\Delta\lambda$			22		nm
Half Intensity Beam Angle, θ			7		Deg
Forward Voltage, V_F	$I_F = 350\text{mA}$		3.2	3.8	Volts
Reverse Breakdown Voltage, V_R	$I_R = 2\mu\text{A}$	5			Volts

ABSOLUTE MAXIMUM RATINGS AT 25°C

Power Dissipation (Infinite Heatsink)	1000mW
Continuous Forward Current	350mA
Peak Forward Current (1/10 duty cycle @ 1kHz)	2A
Reverse Voltage	5V
Lead Soldering Temperature (1/16" from case for 10sec)	260°C

THERMAL PARAMETERS

Storage and Operating Temperature Range	-55°C TO 100°C
Maximum Junction Temperature	125°C
Thermal Resistance, R_{THJA}^1	150°C/W Typical
Thermal Resistance, R_{THJA}^2	60°C/W Typical

¹ Heat transfer minimized by measuring in still air with minimum heat conducting through leads.

² Air circulating at a rapid rate to keep case temperature at 25°C.

