

FEATURES

- High current capability
- 880nm peak emission for optimum matching with ODD-45W photodiode
- Hermetically sealed TO-46 package
- Narrow angle of emission

All surfaces are gold plated. Dimensions are nominal values in inches unless otherwise specified. Window caps are welded to the case.



ELECTRO-OPTICAL CHARACTERISTICS AT 25°C

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, P_o	$I_F = 200\text{mA}$	20	25		mW
Radiant Intensity, I_e			220		mW/sr
Peak Emission Wavelength, λ_p	$I_F = 50\text{mA}$		880		nm
Spectral Bandwidth at 50%, $\Delta\lambda$			80		nm
Half Intensity Beam Angle, θ			8		Deg
Forward Voltage, V_F	$I_F = 100\text{mA}$		1.5	1.8	Volts
Reverse Breakdown Voltage, V_R	$I_R = 10\mu\text{A}$	5	30		Volts
Capacitance, C	$V_R = 0\text{V}$		60		pF
Rise Time			0.7		μsec
Fall Time			0.7		μsec

ABSOLUTE MAXIMUM RATINGS AT 25°C CASE

Power Dissipation ¹	360mW
Continuous Forward Current	200mA
Peak Forward Current (10 μs , 230Hz) ²	7A
Reverse Voltage	5V
Lead Soldering Temperature (1/16" from case for 10sec)	260°C

¹Derate per Thermal Derating Curve above 25°C

²Derate linearly above 25°C

THERMAL PARAMETERS

Storage and Operating Temperature Range	-55°C TO 100°C
Maximum Junction Temperature	100°C
Thermal Resistance, R_{THJA} ¹	350°C/W Typical
Thermal Resistance, R_{THJA} ²	115°C/W Typical

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

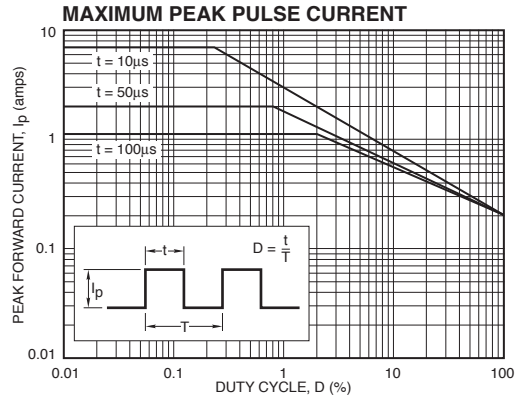
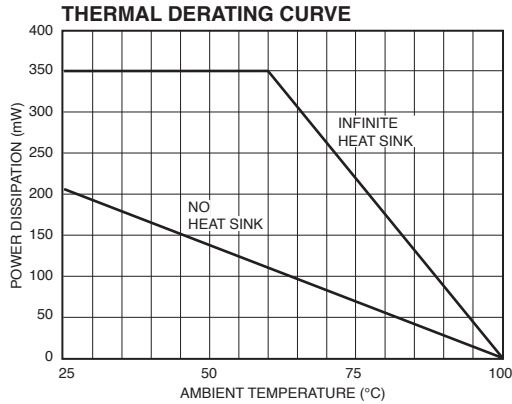
²Air circulating at a rapid rate to keep case temperature at 25°C



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MAXIMUM RATINGS



TYPICAL CHARACTERISTICS

