

**FEATURES**

- Wide temperature rating
- 2 lead TO-39 package
- Narrow angle of emission
- Isolated case
- RoHS and REACH compliant



**ELECTRO-OPTICAL CHARACTERISTICS AT 25°C**

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, $P_o$	$I_F = 500\text{mA}$	50	100		mW
Peak Emission Wavelength, $\lambda_p$	$I_F = 50\text{mA}$		880		nm
Spectral Bandwidth at 50%, $\Delta\lambda$	$I_F = 50\text{mA}$		55		nm
Half Intensity Beam Angle, $\theta$	$I_F = 50\text{mA}$		7		Deg
Forward Voltage, $V_F$	$I_F = 500\text{mA}$		1.4	1.7	Volts
Reverse Breakdown Voltage, $V_R$	$I_R = 10\mu\text{A}$	5	30		Volts
Capacitance, C	$V_R = 0\text{V}$				pF
Rise Time			20		nsec
Fall Time			20		nsec

**ABSOLUTE MAXIMUM RATINGS AT 25°C CASE**

Power Dissipation <sup>1</sup>	1000mW
Continuous Forward Current	500mA
Peak Forward Current (10 $\mu\text{s}$ , 200Hz) <sup>2</sup>	1.5A
Reverse Voltage	5V
Lead Soldering Temperature (1/16" from case for 10sec)	260°C

<sup>1</sup>Derate per Thermal Derating Curve above 25°C

<sup>2</sup>Derate linearly above 25°C

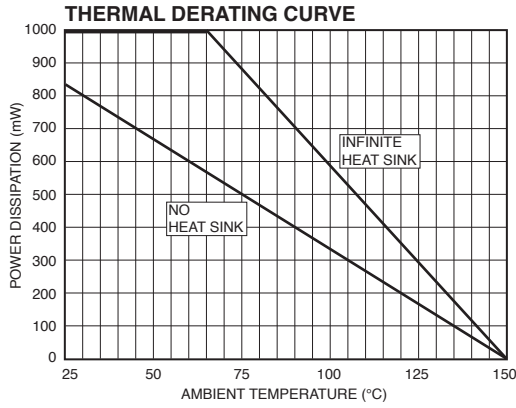
**THERMAL PARAMETERS**

Storage and Operating Temperature Range	-65°C to 150°C
Maximum Junction Temperature	150°C
Thermal Resistance, $R_{THJA}$	150°C/W Typical
Thermal Resistance, $R_{THJC}$	60°C/W Typical



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MAXIMUM RATINGS



TYPICAL CHARACTERISTICS

