

**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 <sub>O</sub>	I <sub>F</sub> = 500mA	50	100		mW
Peak Emission Wavelength, λ <sub>P</sub>	I <sub>F</sub> = 50mA		880		nm
Spectral Bandwidth at 50%, Δλ	I <sub>F</sub> = 50mA		55		nm
Half Intensity Beam Angle, θ	I <sub>F</sub> = 50mA		7		Deg
Forward Voltage, V <sub>F</sub>	I <sub>F</sub> = 500mA		1.4	1.7	Volts
Reverse Breakdown Voltage, V <sub>R</sub>	I <sub>R</sub> = 10μA	5	30		Volts
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 (10μs, 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

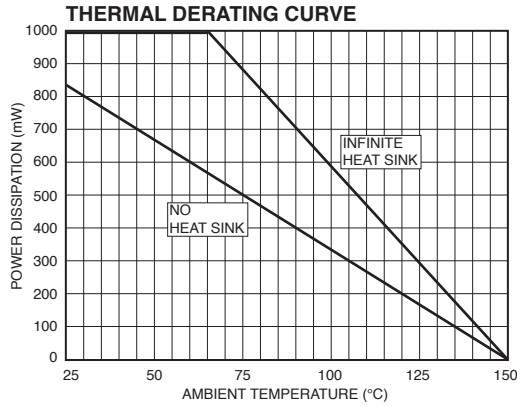
**THERMAL PARAMETERS**

Storage and Operating Temperature Range	-65°C to 150°C
Maximum Junction Temperature	150°C
Thermal Resistance, R <sub>THJA</sub>	150°C/W Typical
Thermal Resistance, R <sub>THJC</sub>	60°C/W Typical



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MAXIMUM RATINGS



TYPICAL CHARACTERISTICS

