

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 = 500mA	50	100		mW
Peak Emission Wavelength, λ _p	I _F = 50mA		880		nm
Spectral Bandwidth at 50%, Δλ	I _F = 50mA		55		nm
Half Intensity Beam Angle, θ	I _F = 50mA		7		Deg
Forward Voltage, V _F	I _F = 500mA		1.4	1.7	Volts
Reverse Breakdown Voltage, V _R	I _R = 10μA	5	30		Volts
Capacitance, C	V _R = 0V				pF
Rise Time			20		nsec
Fall Time			20		nsec

ABSOLUTE MAXIMUM RATINGS AT 25°C CASE

Power Dissipation ¹	1000mW
Continuous Forward Current	500mA
Peak Forward Current (10μs, 200Hz) ²	1.5A
Reverse Voltage	5V
Lead Soldering Temperature (1/16" from case for 10sec)	260°C

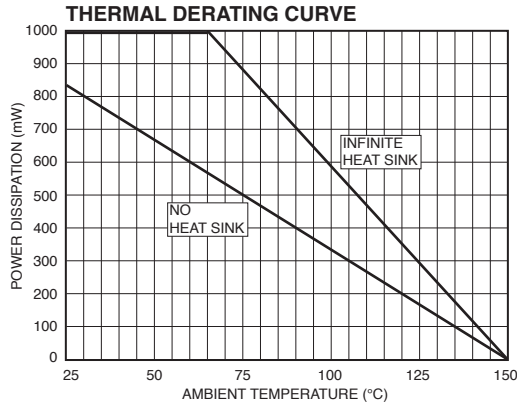
¹Derate per Thermal Derating Curve above 25°C

²Derate linearly above 25°C

THERMAL PARAMETERS

Storage and Operating Temperature Range	-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

MAXIMUM RATINGS



TYPICAL CHARACTERISTICS

