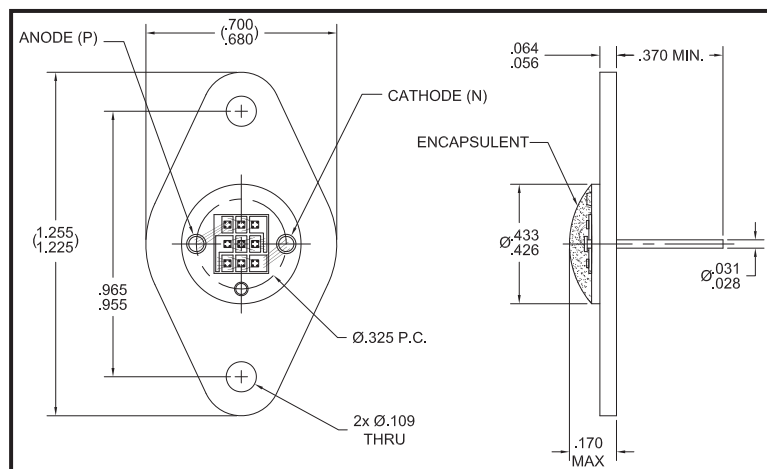


**FEATURES**

- Ultra high optical output
- 850nm IR illuminator
- Very uniform optical beam
- Standard 2-lead TO-66 electrically isolated package
- Ideal for night vision illumination

All surfaces are gold plated. 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	$I_F = 300\text{mA}$	800	1250		mW
Peak Emission Wavelength, λ_P	$I_F = 50\text{mA}$		850		nm
Spectral Bandwidth at 50%, $\Delta\lambda$			40		nm
Half Intensity Beam Angle, θ			120		Deg
Forward Voltage, V_F	$I_F = 300\text{mA}$		14.4	16.2	Volts
Reverse Breakdown Voltage, V_R	$I_R = 10\mu\text{A}$	5	30		Volts
Rise Time			200		nsec
Fall Time			200		nsec

ABSOLUTE MAXIMUM RATINGS AT 25°C CASE

Power Dissipation ¹	6W
Continuous Forward Current	370mA
Peak Forward Current (10 μs , 200Hz) ²	1A
Reverse Voltage	5V
Lead Soldering Temperature (1/16" from case for 10 sec)	260°C

¹Derate per Thermal Derating Curve above 25°C

²Derate linearly above 25°C

THERMAL PARAMETERS

Storage and Operating Temperature Range	-40°C to +100°C
Maximum Junction Temperature	100°C
Thermal Resistance, R_{THJA}	60°C/W Typical
Thermal Resistance, R_{THJC}	16°C/W Typical

