



**FEATURES**

- 30° beam angle
- Excellent thermal conductivity
- High efficiency

**Warning:** Unit contains Beryllia. Do not crush, drill, or abrade. The dust resulting from such action may be Hazardous to your Health.

Dimensions are in inch (metric) units.



**ELECTRO-OPTICAL CHARACTERISTICS AT 25°C (CASE TEMP<sup>1</sup>)**

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS	
Total Power Output, P <sub>o</sub>	I <sub>F</sub> = 3A	7	9		W	
	I <sub>F</sub> = 6A		16		W	
Peak Emission Wavelength, λ <sub>p</sub>	I <sub>F</sub> = 3A	840	855	865	nm	
Spectral Bandwidth at 50%, Δλ			45		nm	
Half Intensity Beam Angle, θ				30		Deg
Forward Voltage, V <sub>F</sub>				13	17	Volts

**ABSOLUTE MAXIMUM RATINGS AT 25°C**

Continuous Forward Current	6A
Power Dissipation	102W
Reverse Voltage	5V

**THERMAL PARAMETERS**

Storage Temperature Range	-40°C TO 125°C
Operating Temperature Range	-20°C TO 100°C
Maximum Junction Temperature	125°C
Thermal Resistance Junction-Case R <sub>THJC</sub>	0.8°C/W Typical

<sup>1</sup> As measure at center of backside of the package.

**Mounting Notes:**

- Item must be mounted to an adequate heat sink for maximum performance. Do not exceed the maximum junction temperature. Permanent damage may result.
- Array may be held using 4-40 screws to a maximum torque of 48 in/oz through the 4 holes on the unit.
- Thermal tape, pad or grease may be required if the heat sink surface is not polished flat.
- Unit must be powered with a low impedance current controlled source. Direct voltage application without current control will permanently damage the unit.

