



**Dimensions are in Inch [Metric] units

FEATURES

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

WARNING:

Unit contains Beryllia. Do not crush, drill, grind, or abrade. The Dust resulting from such action may be Hazardous to your Health

ELECTRO-OPTICAL CHARACTERISTICS AT 25°C (CASE TEMP¹)

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, P _O	I _F = 3A	7	9		W
	I _F = 6A		16		W
Peak Emission Wavelength, λ _P	I _F = 3A	840	855	865	nm
Spectral Bandwidth at 50%, Δλ			45		nm
Half Intensity Beam Angle, θ				30	
Forward Voltage, V _F	I _F = 3A		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 _{THJC}	0.8°C/W Typical

¹As Measured 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.



