



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 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 | | Deg |
| Forward Voltage, V _F | | | | 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 |

¹ 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.

