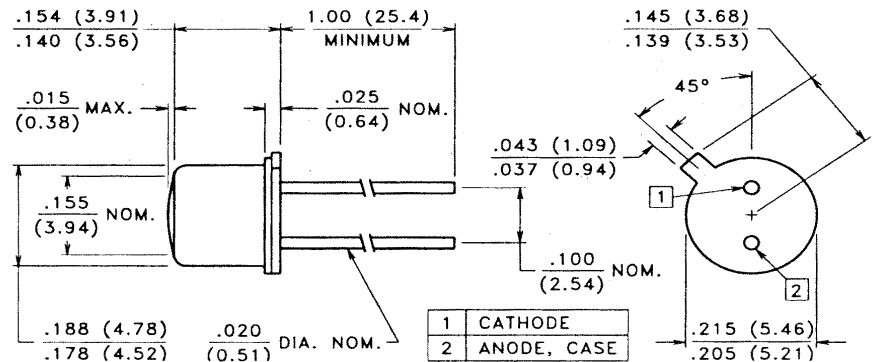




PACKAGE DIMENSIONS inch (mm)



CASE 24 TO-46 HERMETIC (Flat Window)
CHIP SIZE: .018" x .018"

DESCRIPTION

This wide beam angle TO-46 hermetic emitter contains a large area, double wirebonded, GaAlAs, 880 nm, high efficiency IRED chip suitable for higher current pulse applications.

ABSOLUTE MAXIMUM RATINGS @ 25°C (unless otherwise noted) ■

| | | | | | | | | | |
|---|----------------|--|------------|--|--|--|--|--|--|
| Maximum Temperatures | | | | | | | | | |
| Storage and Operating: | -55°C to 125°C | Maximum Reverse Voltage: | 5.0V | | | | | | |
| Continuous Power Dissipation: | 200 mW | Maximum Reverse Current @ $V_R = 5V$: | 10 μA | | | | | | |
| Derate above 30°C: | 2.11 mW/°C | Peak Wavelength (Typical): | 880 nm | | | | | | |
| Maximum Continuous Current: | 100 mA | Junction Capacitance @ 0V, 1 MHz (Typ.): | 35 pF | | | | | | |
| Derate above 30°C: | 1.05 mA/°C | Response Time @ $I_F = 20$ mA | | | | | | | |
| Peak Forward Current, 10 μs , 100 pps: | 3A | Rise: 1.0 μs Fall: 1.0 μs | | | | | | | |
| Temp. Coefficient of Power Output (Typ.): | -8%/°C | Lead Soldering Temperature: | 260°C | | | | | | |
| | | (1.6 mm from case, 5 seconds max.) | | | | | | | |

RoHS Compliant



ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (See also GaAlAs curves, pages 108-110)

| Part Number | Output | | | | | | Forward Drop | | Half Power Beam Angle | |
|-------------|--------------------|------|-------------------|-------------|--------------|----------|--------------|------|-----------------------|----------------|
| | Irradiance | | Radiant Intensity | Total Power | Test Current | V_F | | | | |
| | E_e | | Condition | I_e | P_O | I_{FT} | @ I_{FT} | | $\theta_{1/2}$ | |
| | mW/cm ² | | | | | | Volts | | | |
| | Min. | Typ. | mm | mm | Min. | Typ. | Typ. | Max. | | |
| VTE1063H | 3.8 | 5.0 | 36 | 6.4 | 49 | 80 | 1.0 | 2.8 | 3.5 | $\pm 35^\circ$ |

■ Refer to General Product Notes, page 2.