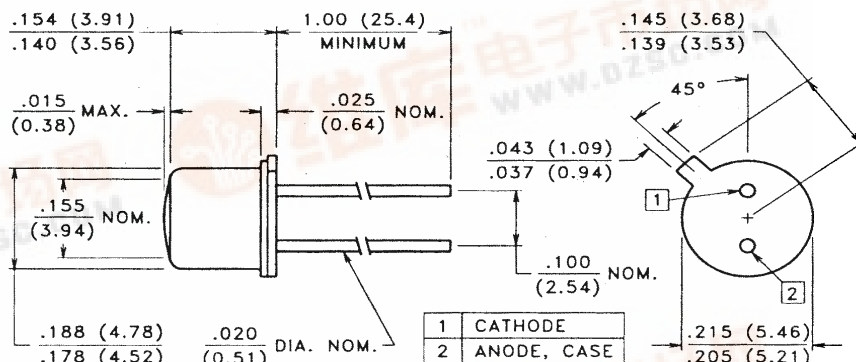


GaAlAs Infrared Emitting Diodes

TO-46 Flat Window Package — 880 nm

VTE1063

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

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}	
	mW/cm ²		distance	Diameter	mW/sr	mW	mA	Volts	
	Min.	Typ.	mm	mm	Min.	Typ.	(Pulsed)	Typ.	Max.
VTE1063	3.8	5.0	36	6.4	49	80	1.0	2.8	3.5

Refer to General Product Notes, page 2.