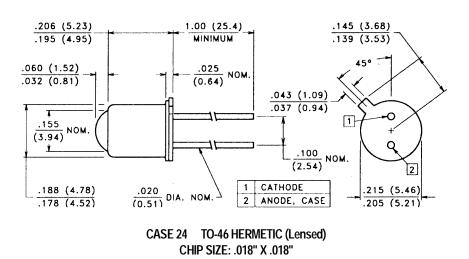
GaAs Infrared Emitting Diodes

TO-46 Lensed Package — 940 nm

PACKAGE DIMENSIONS inch (mm)



VTE1113H

DESCRIPTION

This narrow beam angle TO-46 hermetic emitter contains a large area, double wirebonded, GaAs, 940 nm IRED chip suitable for higher current pulse applications.

RoHS Compliant



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

Maximum TemperaturesStorage and Operating:-55°C to 125°CContinuous Power Dissipation:200 mWDerate above 30°C:2.11 mW/°CMaximum Continuous Current:100 mA		Maximum Reverse Voltage: Maximum Reverse Current @ V _R = 5V: Peak Wavelength (Typical): Junction Capacitance @ 0V, 1 MHz (Typ.): Response Time @ I _F = 20 mA Rise:1.0 µs Fall: 1.0 µs	5.0V 10 μΑ 940 nm 35 pF	
Derate above 30°C: Peak Forward Current, 10 µs, 100 pps: Temp. Coefficient of Power Output (Typ.):	1.05 mA/°C 3.0 A 8%/°C	Lead Soldering Temperature: (1.6 mm from case, 5 seconds max.	260°C	

ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (See also GaAIAs curves, pages 123-124)

Part Number	Output						Forwar	d Drop	Half Power Beam	
	Irradiance			Radiant Intensity	Total Power	Test Current	V	America		
	E	E _e Condition		Ι _e	P _O	I _{FT}	@ I _{FT}		θ _{1/2}	
	mW	/cm ²	distance	Diameter	mW/sr	mW	mA (Pulsed)	Volts		Tim
	Min.	Тур.	mm	mm	Min.	Тур.		Тур.	Max.	Тур.
VTE1113H	12	15	36	6.4	156	30	1.0	1.9	2.5	±10°

Refer to General Product Notes, page 2.

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