

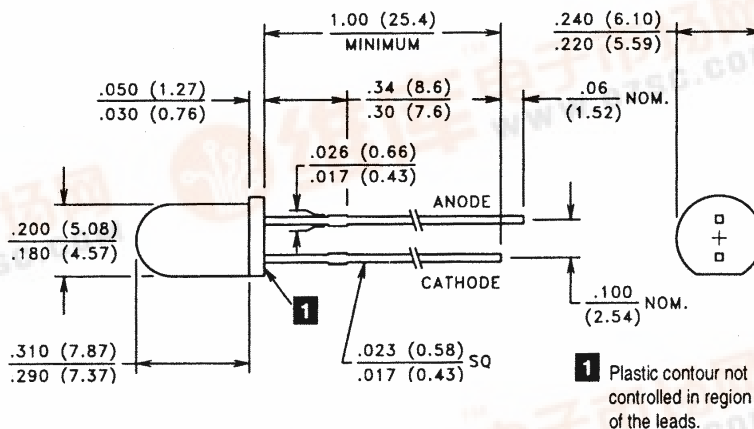
查询VTE1291-1供应商
GaAlAs Infrared Emitting Diodes
T-1 $\frac{3}{4}$ (5 mm) Plastic Package — 880 nm

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VTE1291-1, 1291-2



PACKAGE DIMENSIONS inch (mm)



DESCRIPTION

CASE 26 T-1 $\frac{3}{4}$ (5 mm)

CHIP SIZE: .015" x .015"

This narrow beam angle 5 mm plastic packaged emitter contains a double wirebonded, GaAlAs, 880 nm IRED chip. This cost effective design is well suited for dc or high current pulse applications. This device is a UL recognized component for smoke alarm applications (UL file #S3506).

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

Maximum Temperatures			Maximum Reverse Voltage:			5.0V
Storage and Operating:	-40°C to 100°C		Maximum Reverse Current @ $V_R = 5V$:			10 μA
Continuous Power Dissipation:	200 mW		Peak Wavelength (Typical):			880 nm
Derate above 30°C:	2.86 mW/°C		Junction Capacitance @ 0V, 1 MHz (Typ.):			23 pF
Maximum Continuous Current:	100 mA		Response Time @ $I_F = 20$ mA			
Derate above 30°C:	1.43 mA/°C		Rise: 1.0 μs Fall: 1.0 μs			
Peak Forward Current, 10 μs , 100 pps:	2.5 A		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}		θ _{1/2}
	mW/cm ²		distance	Diameter	mW/sr	mW	mA (Pulsed)	Volts		Typ.
	Min.	Typ.	mm	mm	Min.	Typ.		Typ.	Max.	
VTE1291-1	2.5	3.3	36	6.4	32	20	100	1.5	2.0	±12°
VTE1291-2	5.0	6.5	36	6.4	65	25	100	1.5	2.0	±12°

Refer to General Product Notes, page 2.