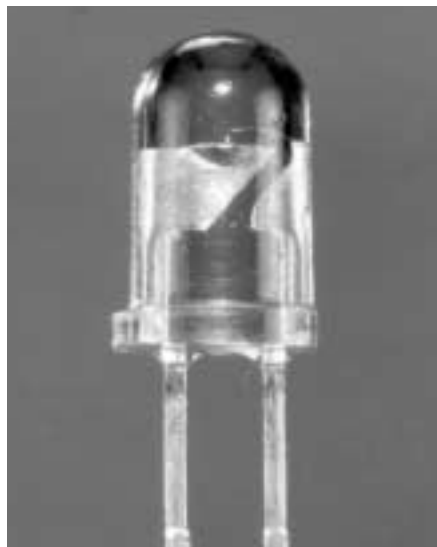


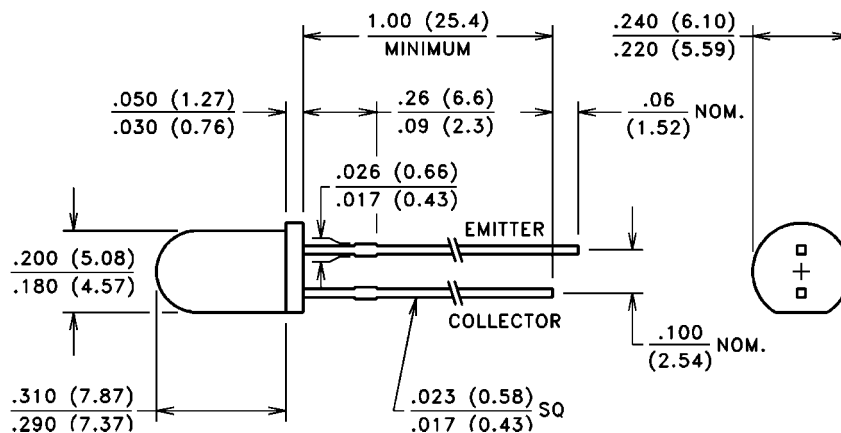
.025" NPN Phototransistors

Clear T-1¾ (5 mm) Plastic Package

VTT1222W, 23W



PACKAGE DIMENSIONS inch (mm)



PRODUCT DESCRIPTION

A small area high speed NPN silicon phototransistor mounted in a 5 mm diameter lensed, end looking, transparent plastic package. Detectors in this series have a half power acceptance angle ($\theta_{1/2}$) of 40°. These devices are spectrally and mechanically matched to the VTE12xxW series of IREDs.

ABSOLUTE MAXIMUM RATINGS ■

(@ 25°C unless otherwise noted)

Maximum Temperatures

Storage Temperature:

-40°C to 100°C

Operating Temperature:

-40°C to 100°C

Continuous Power Dissipation:

50 mW

Derate above 30°C:

0.71 mW/°C

Maximum Current:

25 mA

Lead Soldering Temperature:

260°C

(1.6 mm from case, 5 sec. max.)

ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (See also typical curves, pages 91-92)

Part Number ■	Light Current			Dark Current		Collector Breakdown	Emitter Breakdown	Saturation Voltage	Rise/Fall Time	Angular Response $\theta_{1/2}$
	I_C			I_{CEO}		$V_{BR(CEO)}$	$V_{BR(ECO)}$	$V_{CE(SAT)}$	t_R/t_F	
	mA		H fc (mW/cm ²) $V_{CE} = 5.0$ V	H = 0		$I_C = 100 \mu A$ H = 0	$I_E = 100 \mu A$ H = 0	$I_C = 1.0$ mA H = 400 fc	$I_C = 1.0$ mA $R_L = 100 \Omega$	
	Min.	Max.		(nA) Max.	V_{CE} (Volts)	Volts, Min.	Volts, Min.	Volts, Max.	μ sec, Typ.	Typ.
VTT1222W	0.9	—	100 (5)	10	20	50	6.0	0.25	2.0	±40°
VTT1223W	1.5	—	100 (5)	10	20	40	6.0	0.25	3.0	±40°

■ Refer to General Product Notes, page 2.