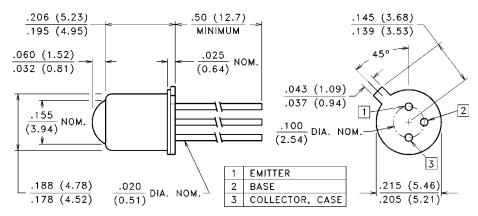
.050" NPN Phototransistors

TO-46 Lensed Package

VTT1115, 16, 17



PACKAGE DIMENSIONS inch (mm)



CASE 3 TO-46 HERMETIC (LENSED) CHIP TYPE: 50T

PRODUCT DESCRIPTION

A large area high sensitivity NPN silicon phototransistor in a lensed, hermetically sealed, TO-46 package. The hermetic package offers superior protection from hostile environments The base connection is brought out allowing conventional transistor biasing. These devices are spectrally matched to the VTE11xx series of IREDs.

ABSOLUTE MAXIMUM RATINGS ■

(@ 25°C unless otherwise noted)

Maximum Temperatures

Storage Temperature: -40°C to 110°C Operating Temperature: -40°C to 110°C

Continuous Power Dissipation: 250 mW

Derate above 30°C: 3.12 mW/°C

Maximum Current: 200 mA

Maximum Current: 200 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 θ _{1/2}
	I _C			I _{CEO}		V _{BR(CEO)}	V _{BR(ECO)}	V _{CE(SAT)}	t _R /t _F	
	mA fo (H fo (m)//(cm ²)	H :	= 0	I _C = 100 μA H = 0	I _E = 100 μA H = 0	I _C = 1.0 mA H = 400 fc	$I_C = 1.0 \text{ mA}$ $R_L = 100 \Omega$	1 1/2
	Min.	Max.	fc (mW/cm ²) $V_{CE} = 5.0 \text{ V}$	(nA) Max.	V _{CE} (Volts)	Volts, Min.	Volts, Min.	Volts, Max.	µѕес, Тур.	Тур.
VTT1115	1.0	_	20 (1)	100	10	30	6.0	0.40	5.0	±15°
VTT1116	2.0	_	20 (1)	100	10	30	4.0	0.40	8.0	±15°
VTT1117	4.0	_	20 (1)	100	10	30	4.0	0.40	8.0	±15°

■ Refer to General Product Notes, page 2.