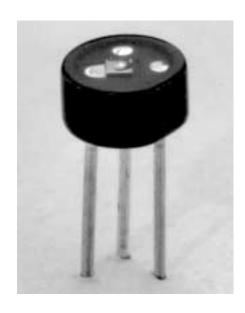
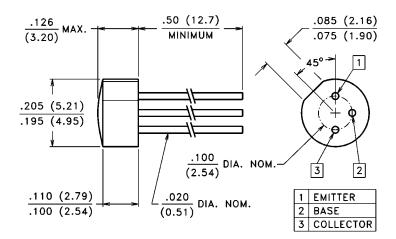
.040" NPN Phototransistors

Clear Epoxy TO-106 Ceramic Package

VTT9002, 9003



PACKAGE DIMENSIONS inch (mm)



CASE 8 TO-106 (FLAT) CHIP TYPE: 40T

PRODUCT DESCRIPTION

A medium area high sensitivity NPN silicon phototransistor in a recessed TO-106 ceramic package. The chip is protected with a layer of clear epoxy. The base connection is brought out allowing conventional transistor biasing. These devices are spectrally matched to any of PerkinElmer IREDs.

ABSOLUTE MAXIMUM RATINGS ■

(@ 25°C unless otherwise noted)

Maximum Temperatures

Storage Temperature: -20°C to 70°C
Operating Temperature: -20°C to 70°C
Continuous Power Dissipation: 100 mW
Derate above 30°C: 2.5 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 θ _{1/2}
	I _C			I _{CEO}		V _{BR(CEO)}	V _{BR(ECO)}	V _{CE(SAT)}	t _R /t _F	
	mA		H fo (mW/om²)	H = 0		I _C = 100 μA H = 0	I _E = 100 μA H = 0	I _C = 1.0 mA H = 400 fc	$I_C = 1.0 \text{ mA}$ $R_L = 100 \Omega$. 112
	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.
VTT9002	2.0	_	100 (5)	100	10	30	6.0	0.55	4.0	±50°
VTT9003	5.0	_	100 (5)	100	10	30	6.0	0.55	6.0	±50°

■ Refer to General Product Notes, page 2.