.040" NPN Phototransistors

VTT9102H, 9103H

Epoxy Lensed TO-106 Ceramic Package



PACKAGE DIMENSIONS inch (mm)



PRODUCT DESCRIPTION

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

RoHS Compliant



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:	50 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}
	Ι _C			I _{CEO}		V _{BR(CEO)}	V _{BR(ECO)}	V _{CE(SAT)}	t _R /t _F	
	mA H		H fc (m)//(cm ²)	H = 0		l _C = 100 μA H = 0	l _E = 100 μA H = 0	l _C = 1.0 mA H = 400 fc	l _C = 1.0 mA R _L = 100 Ω	1 112
	Min.	Max.	V _{CE} = 5.0 V	(nA) Max.	V _{CE} (Volts)	Volts, Min.	Volts, Min.	Volts, Max.	µsec, Тур.	Тур.
VTT9102H	6.0		100 (5)	100	5	30	4.0	0.55	6.0	±42°
VTT9103H	13.0	_	100 (5)	100	5	30	4.0	0.55	10.0	±42°

Refer to General Product Notes, page 2.