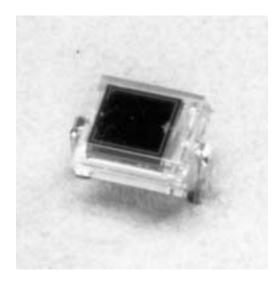
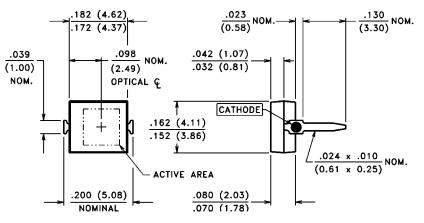
VTP Process Photodiodes

VTP8551H



PACKAGE DIMENSIONS inch (mm)



CASE 22 MINI-DIP CHIP ACTIVE AREA: .012 in² (7.45 mm²)

PRODUCT DESCRIPTION

Planar silicon photodiode in a transparent molded plastic package. Suitable for direct mounting to P.C.B. Arrays can be formed by positioning these devices side by side. These diodes exhibit low dark current under reverse bias and fast speed of response.

Storage Temperature:	-40°C to 85°C
Operating Temperature:	-40°C to 85°C

ABSOLUTE MAXIMUM RATINGS

RoHS Compliant



ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (See also VTP curves, pages 45-46)

SYMBOL	CHARACTERISTIC TEST CONDITIONS	VTP8551H				
		TEST CONDITIONS	Min.	Тур.	Max.	– UNITS
I _{SC}	Short Circuit Current	H = 100 fc, 2850 K	50	70		μA
TC I _{SC}	I _{SC} Temperature Coefficient	2850 K		.20		%/°C
V _{OC}	Open Circuit Voltage	H = 100 fc, 2850 K		350		mV
TC V _{OC}	V _{OC} Temperature Coefficient	2850 K		-2.0		mV/°C
I _D	Dark Current	H = 0, VR = 10 V			30	nA
R _{SH}	Shunt Resistance	H = 0, V = 10 mV		.15		GΩ
CJ	Junction Capacitance	H = 0, V = 3 V			50	pF
Re	Responsivity	940 nm		.05		A/(W/cm ²)
S _R	Sensitivity	@ Peak		.55		A/W
λ_{range}	Spectral Application Range		400		1150	nm
λ _p	Spectral Response - Peak			925		nm
V _{BR}	Breakdown Voltage		33	140		V
θ _{1/2}	Angular Resp 50% Resp. Pt.			±50		Degrees
NEP	Noise Equivalent Power		1.8 x 10 ⁻¹³ (Typ.)			W∕√Hz
D*	Specific Detectivity		1.5 х 10 ¹² (Тур.)			cm√Hz/W

PerkinElmer Optoelectronics, 22001 Dumberry, Vaudreuil, QC, Canada J7V 8P7

Phone: 877-734-6786 Fax: 450-424-3413

www.perkinelmer.com/opto

