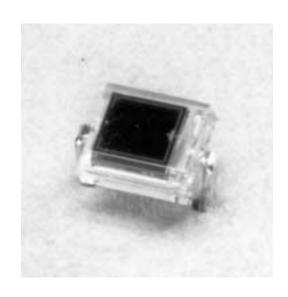
VTP Process Photodiodes

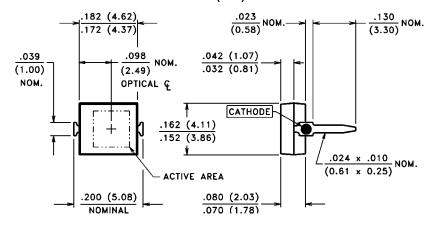
VTP8551H



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.

PACKAGE DIMENSIONS inch (mm)



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

ABSOLUTE MAXIMUM RATINGS

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

RoHS Compliant



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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTP8551H			LINUTO
			Min.	Тур.	Max.	- UNITS
I _{SC}	Short Circuit Current	H = 100 fc, 2850 K	50	70		μΑ
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 x 10 ¹² (Typ.)			cm√Hz/W