Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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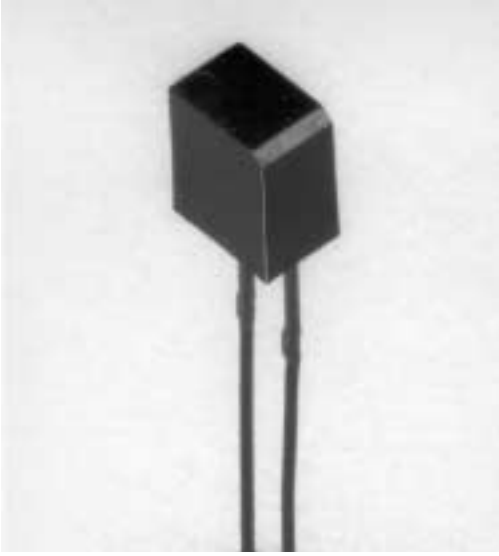
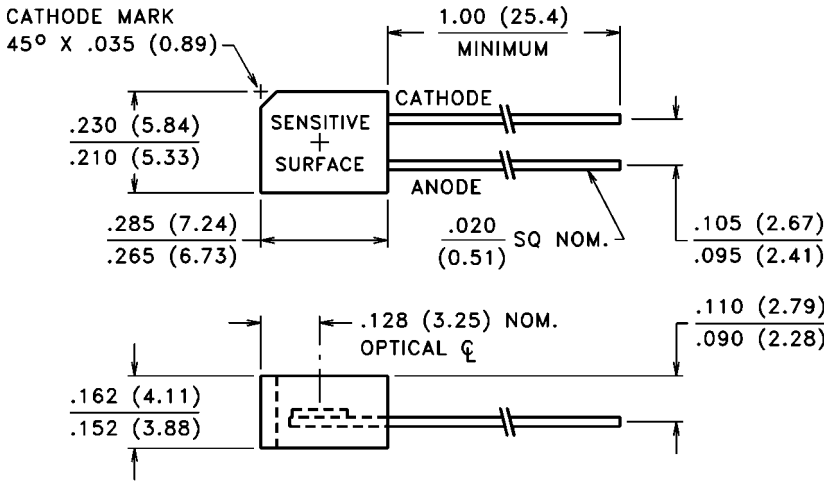
VTP Process Photodiodes

VTP100H



PACKAGE DIMENSIONS inch (mm)



CASE 52 FLAT SIDELOOKER
CHIP ACTIVE AREA: .012 in^2 (7.45 mm^2)

PRODUCT DESCRIPTION

Planar silicon photodiode in a molded plastic sidelooker package. The package material is infrared transmitting (blocking visible light). These diodes exhibit low dark current and fast speed of response.

ABSOLUTE MAXIMUM RATINGS

Storage Temperature:	-40°C to 100°C
Operating Temperature:	-40°C to 100°C

RoHS Compliant

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTP100H			UNITS
			Min.	Typ.	Max.	
I_{SC}	Short Circuit Current	H = 100 fc, 2850 K	35	55		µA
TC I_{SC}	I_{SC} Temperature Coefficient	2850 K		.24		%/°C
V_{OC}	Open Circuit Voltage	H = 100 fc, 2850 K		300		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		.25		GΩ
C_J	Junction Capacitance	H = 0, V = 3 V			50	pF
Re	Responsivity	940 nm	.036	.047		A/(W/cm^2)
S_R	Sensitivity	@ Peak		.50		A/W
λ_{range}	Spectral Application Range		725		1150	nm
λ_p	Spectral Response - Peak			925		nm
V_{BR}	Breakdown Voltage		30	140		V
$\theta_{1/2}$	Angular Resp. - 50% Resp. Pt.			±70		Degrees
NEP	Noise Equivalent Power		2.5 x 10^{-14} (Typ.)			$W/\sqrt{Hz}$
D*	Specific Detectivity		1.1 x 10^{13} (Typ.)			$cm\sqrt{Hz}/W$

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