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TECHNOLOGY GROUP

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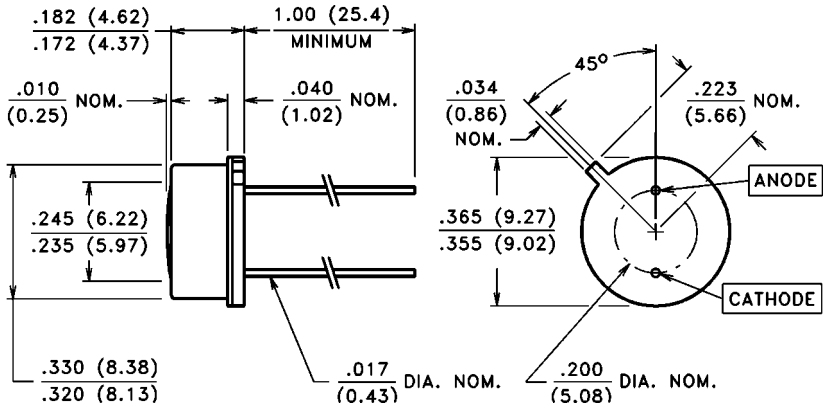
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VTP Process Photodiodes

VTP5050H



PACKAGE DIMENSIONS inch (mm)



CASE 14 TO-5 HERMETIC
CHIP ACTIVE AREA: .012 in^2 (7.45 mm^2)

PRODUCT DESCRIPTION

Planar silicon photodiode in a "flat" window, dual lead TO-5 package. Cathode is common to the case. These diodes exhibit low dark current under reverse bias and fast speed of response.

ABSOLUTE MAXIMUM RATINGS

Storage Temperature:	-40°C to 110°C
Operating Temperature:	-40°C to 110°C

RoHS Compliant

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTP5050H			UNITS
			Min.	Typ.	Max.	
I_{SC}	Short Circuit Current	H = 100 fc, 2850 K	40	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 = 50 V			18	nA
R_{SH}	Shunt Resistance	H = 0, V = 10 mV		.25		GΩ
C_J	Junction Capacitance	H = 0, V = 15 V			24	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		50	140		V
$\theta_{1/2}$	Angular Resp. - 50% Resp. Pt.			±45		Degrees
NEP	Noise Equivalent Power		1.4 x 10^{-13} (Typ.)			$W/\sqrt{Hz}$
D*	Specific Detectivity		2.0 x 10^{12} (Typ.)			$cm\sqrt{Hz}/W$

Artisan Technology Group is an independent supplier of quality pre-owned equipment

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Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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