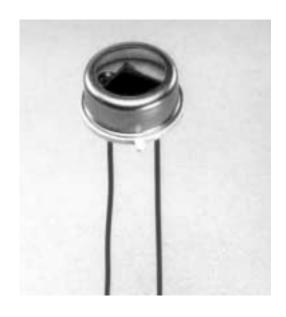
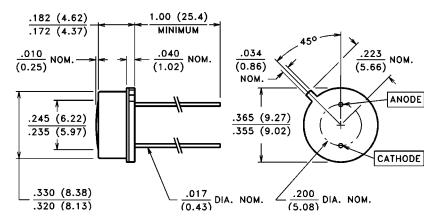
VTB Process Photodiodes

VTB5051BH



PACKAGE DIMENSIONS inch (mm)



CASE 14 TO-5 HERMETIC CHIP ACTIVE AREA: .023 in² (14.8 mm²)

PRODUCT DESCRIPTION

Planar silicon photodiode in a "flat" window, dual lead TO-5 package. The package incorporates an infrared rejection filter. Cathode is common to the case. These diodes have very high shunt resistance and have good blue 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 VTB curves, pages 21-22)

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTB5051BH			LIMITO
			Min.	Тур.	Max.	UNITS
I _{SC}	Short Circuit Current	H = 100 fc, 2850 K	8	13		μΑ
TC I _{SC}	I _{SC} Temperature Coefficient	2850 K		.02	.08	%/°C
V _{OC}	Open Circuit Voltage	H = 100 fc, 2850 K		420		mV
TC V _{OC}	V _{OC} Temperature Coefficient	2850 K		-2.0		mV/°C
I _D	Dark Current	H = 0, VR = 2.0 V			250	pA
R _{SH}	Shunt Resistance	H = 0, V = 10 mV		.56		GΩ
TC R _{SH}	R _{SH} Temperature Coefficient	H = 0, V = 10 mV		-8.0		%/°C
СЈ	Junction Capacitance	H = 0, V = 0		3.0		nF
λ_{range}	Spectral Application Range		330		720	nm
λ_{p}	Spectral Response - Peak			580		nm
V _{BR}	Breakdown Voltage		2	40		V
θ _{1/2}	Angular Resp 50% Resp. Pt.			±50		Degrees
NEP	Noise Equivalent Power		3.7 x 10 ⁻¹⁴ (Typ.)			W∕√Hz
D*	Specific Detectivity		1.0 x 10 ¹³ (Typ.)			cm√Hz/W