



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!



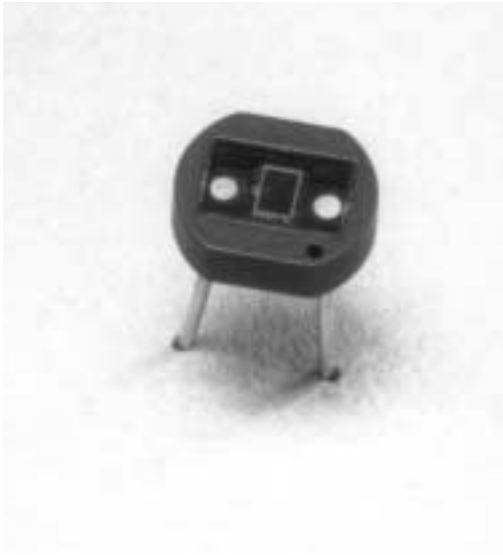
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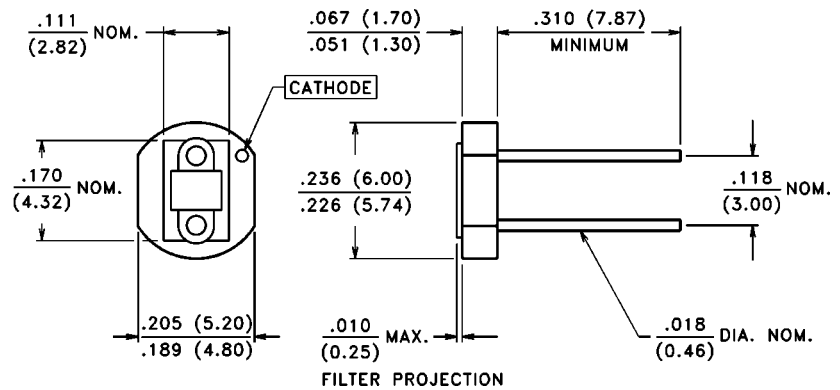
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PACKAGE DIMENSIONS inch (mm)



CASE 20F 6 mm CERAMIC
CHIP ACTIVE AREA: .0025 in² (1.60 mm²)

PRODUCT DESCRIPTION

Small area planar silicon photodiode in a recessed ceramic package. The package incorporates an infrared rejection filter. These diodes have very high shunt resistance and have good blue response.

ABSOLUTE MAXIMUM RATINGS

Storage Temperature: -20°C to 75°C
Operating Temperature: -20°C to 75°C

RoHS Compliant



ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (See also VTB curves, pages 21-22)

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTB9412BH			VTB9413BH			UNITS
			Min.	Typ.	Max.	Min.	Typ.	Max.	
I _{SC}	Short Circuit Current	H = 100 fc, 2850 K	.8	1.3		.8	1.3		μA
TC I _{SC}	I _{SC} Temperature Coefficient	2850 K		.02	.08		.02	.08	%/°C
V _{OC}	Open Circuit Voltage	H = 100 fc, 2850 K		420			420		mV
TC V _{OC}	V _{OC} Temperature Coefficient	2850 K		-2.0			-2.0		mV/°C
I _D	Dark Current	H = 0, VR = 2.0 V			100			20	pA
R _{SH}	Shunt Resistance	H = 0, V = 10 mV		.25			7.0		GΩ
TC R _{SH}	R _{SH} Temperature Coefficient	H = 0, V = 10 mV		-8.0			-8.0		%/°C
C _J	Junction Capacitance	H = 0, V = 0		.31			.31		nF
λ _{range}	Spectral Application Range		330		720	330		720	nm
λ _p	Spectral Response - Peak			580			580		nm
V _{BR}	Breakdown Voltage		2	40		2	40		V
θ _{1/2}	Angular Resp. - 50% Resp. Pt.			±50			±50		Degrees
NEP	Noise Equivalent Power		5.3 x 10 ⁻¹⁴ (Typ.)			1.1 x 10 ⁻¹⁴ (Typ.)			W/√Hz
D*	Specific Detectivity		2.4 x 10 ¹² (Typ.)			1.2 x 10 ¹³ (Typ.)			cm√Hz/W