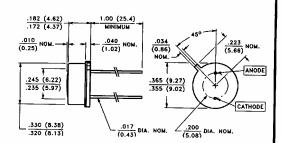
E G & G VACTEC



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 good blue response.

PACKAGE DIMENSIONS inch (mm)



CASE 14 TO-5 HERMETIC
CHIP ACTIVE AREA: .008 in² (5.16 mm²)

ABSOLUTE MAXIMUM RATINGS

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

ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (See also VTB curves, pages 12-13)

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SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTB5040B			VTB5041B						UNITS
			Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	I UNITS
Isc	Short Circuit Current	H = 100 fc, 2850 K	3.0	4.5		3.0	4.5					μΑ
TC Isc	Isc Temp. Coefficient	2850 K		.02	.08		.02	.08				%/°C
Voc	Open Circuit Voltage	H = 100 fc, 2850 K		420			420				⁻	mV
TC Voc	Voc Temp. Coefficient	2850 K		-2.0			-2.0					mV/°C
lo ,	Dark Current	$H = 0, V_R = 2.0 V$			2000			100				pA
RsH	Shunt Resistance	H = 0, V = 10 mV		.07			1.4			\Box		GΩ
TC R _{SH}	RsH Temp. Coefficient	H = 0, V = 10 mV		-8.0			-8.0					%/°C
CJ	Junction Capacitance	H = 0, V = 0		1.0		\Box	1.0		\sqcap		\sqcap	nF
λrange	Spectral Application Range		330		720	330		720	\vdash		\sqcap	nm
λp	Spectral Response - Peak	`-		580		\Box	580				-	nm
VBR	Breakdown Voltage		2	40		2	40					V
θ1/2	Ang. Resp 50% Resp. Pt.			±45	\Box		±45	7			,	Degrees
NEP	Noise Equivalent Power		1.1 x	10-13 ((Тур.)	2.4 x	10 ⁻¹⁴ ((Тур.)				W/√Hz
D*	Specific Detectivity				(Тур.)							cm√Hz/W

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