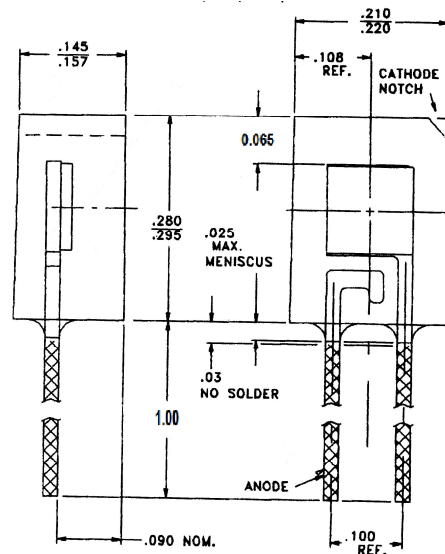




PACKAGE DIMENSIONS (inch)



CASE 52 FLAT SIDELOOKER
CHIP ACTIVE AREA: 0.011in² (7.1mm²)



ABSOLUTE MAXIMUM RATINGS

Storage Temperature: -40°C to 100°C

Operating Temperature: -40°C to 100°C

PRODUCT DESCRIPTION

Planar silicon photodiode in a clear molded plastic sidelooker package suitable for assembly onto printed circuit boards. These diodes have very high shunt resistance and have good blue response.

RoHS Compliant

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTB100H			UNITS
			Min.	Typ.	Max.	
I _{SC}	Short Circuit Current	H = 100 fc, 2850 K	50	65		μA
TC I _{SC}	I _{SC} Temperature Coefficient	2850 K		.12	.23	%/°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, V _R = 10 V		225	500	pA
R _{SH}	Shunt Resistance	H = 0, V = 10 mV		.15		GΩ
TC R _{SH}	R _{SH} Temperature Coefficient	H = 0, V = 10 mV		-8.0		%/°C
C _J	Junction Capacitance	H = 0, V = 0		0.097	2	nF
S _R	Sensitivity	365 nm		.1		A/W
λ _{range}	Spectral Application Range		320		1100	nm
λ _p	Spectral Response - Peak			920		nm
V _{BR}	Breakdown Voltage			140		V
θ _{1/2}	Angular Resp. - 50% Resp. Pt.			±70		Degrees
NEP	Noise Equivalent Power			1.8 x 10 ⁻¹³ (Typ.)		W/√Hz
D*	Specific Detectivity			1.05 x 10 ¹³ (Typ.)		cm ² /√Hz/W