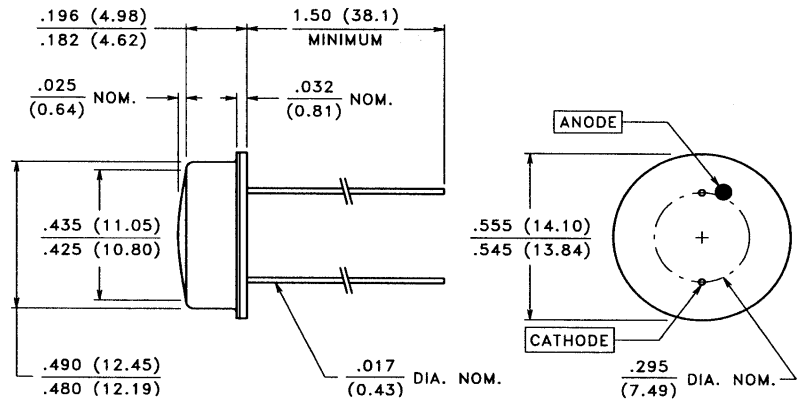
**PACKAGE DIMENSIONS** inch (mm)

CASE 15 TO-8 HERMETIC  
CHIP ACTIVE AREA: .032 in<sup>2</sup> (20.6 mm<sup>2</sup>)

**PRODUCT DESCRIPTION**

Large area planar silicon photodiode in a "flat" window, dual lead TO-8 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

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTP6060			UNITS
			Min.	Typ.	Max.	
I <sub>SC</sub>	Short Circuit Current	H = 100 fc, 2850	120	200		μA
TC I <sub>SC</sub>	I <sub>SC</sub> Temperature Coefficient	2850 K		.20		%/°C
V <sub>OC</sub>	Open Circuit Voltage	H = 100 fc, 2850 K		350		mV
TC V <sub>OC</sub>	V <sub>OC</sub> Temperature Coefficient	2850 K		-2.0		mV/°C
I <sub>D</sub>	Dark Current	H = 0, V <sub>R</sub> = 50 V			35	nA
R <sub>SH</sub>	Shunt Resistance	H = 0, V = 10 mV		100		GΩ
C <sub>J</sub>	Junction Capacitance	H = 0, V = 15 V			60	pF
Re	Responsivity	940 nm		.14		A/(W/cm <sup>2</sup> )
S <sub>R</sub>	Sensitivity	@ Peak		.55		A/W
λ <sub>range</sub>	Spectral Application Range		400		1150	nm
λ <sub>p</sub>	Spectral Response - Peak			925		nm
V <sub>BR</sub>	Breakdown Voltage		50	140		V
θ <sub>1/2</sub>	Angular Resp. - 50% Resp. Pt.			±45		Degrees
NEP	Noise Equivalent Power			1.9 x 10 <sup>-13</sup> (Typ.)		W/√Hz
D*	Specific Detectivity			2.3 x 10 <sup>12</sup> (Typ.)		cm√Hz/W