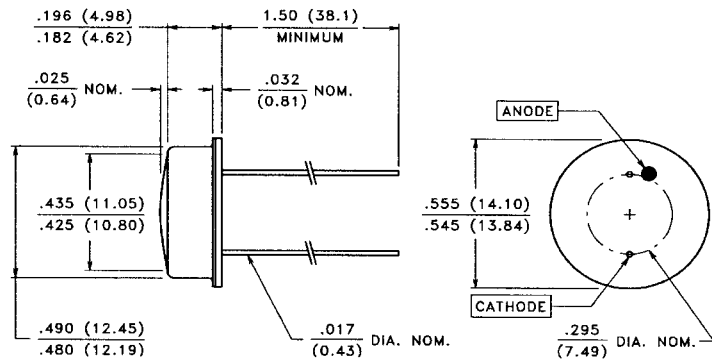


## PACKAGE DIMENSIONS inch (mm)



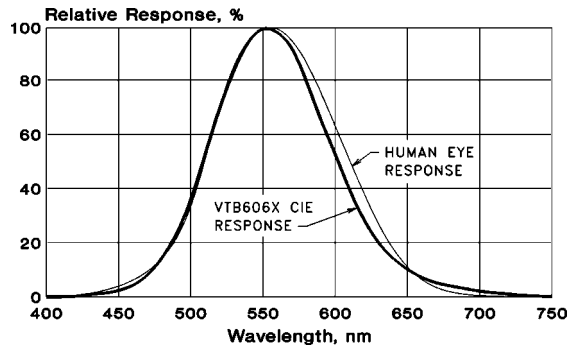
## PRODUCT DESCRIPTION

Large area planar silicon photodiode in a "flat" window, dual lead TO-8 package. This photodiode is a spectrally modified VTB6061BH with a spectral response closely resembling that of the human eye, making it an ideal choice for photometric calibrations. Its high shunt impedance permits accurate measurement of low illuminations.

### ABSOLUTE MAXIMUM RATINGS

Storage Temperature: -55°C to 50°C  
 Operating Temperature: -55°C to 50°C

CASE 15 TO-8 HERMETIC  
 CHIP ACTIVE AREA: .058 in<sup>2</sup> (37.7 mm<sup>2</sup>)  
 VTB6061CIEH vs HUMAN EYE RESPONSE



## RoHS Compliant



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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTB6061CIEH			UNITS
			Min.	Typ.	Max.	
S <sub>p</sub>	Photometric Sensitivity	H = 1.0 fc	75	120		nA/fc
		H = 1.0 lux	7	11		nA/lux
R <sub>SH</sub>	Shunt Resistance	H = 0, V = -10 mV		.10		GΩ
TC R <sub>SH</sub>	R <sub>SH</sub> Temperature Coefficient	H = 0, V = -10 mV		-8.0		%/°C
I <sub>D</sub>	Dark Current	H = 0, V <sub>R</sub> = 2.0 V			2.0	nA
C <sub>J</sub>	Junction Capacitance	H = 0, V = 0		8.0	11	nF
λ <sub>p</sub>	Spectral Response - Peak			555		nm
θ <sub>1/2</sub>	Angular Resp. - 50% Resp. Pt.			±55		Degrees
NEP	Noise Equivalent Power		1.3 x 10 <sup>-13</sup> (Typ.)			W/√Hz