



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!



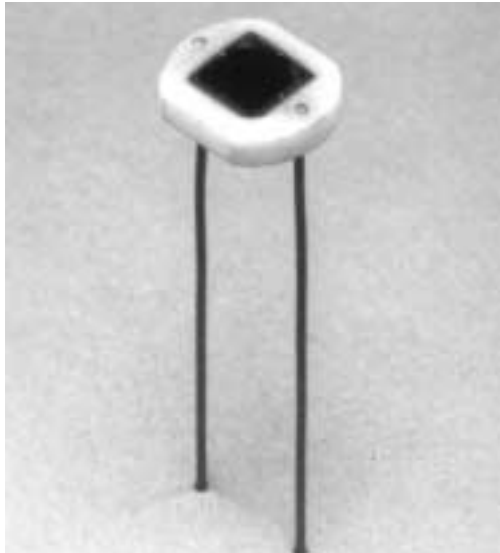
## Contact us

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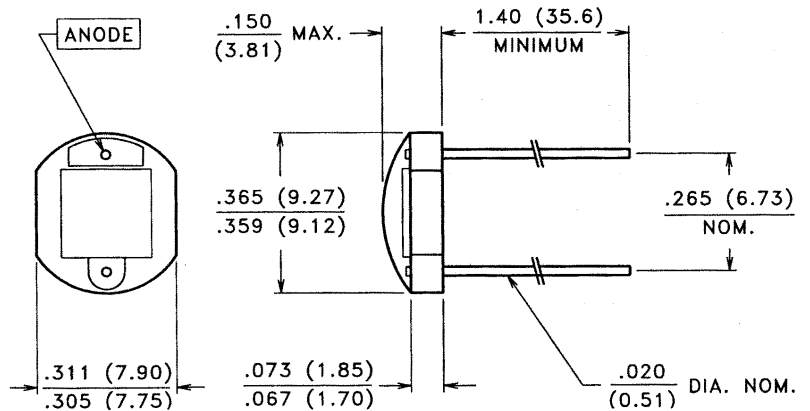
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## PACKAGE DIMENSIONS inch (mm)



CASE 13 CERAMIC  
CHIP ACTIVE AREA: .032 in<sup>2</sup> (21 mm<sup>2</sup>)

## PRODUCT DESCRIPTION

Large area planar silicon mounted on a two lead ceramic substrate and coated with a layer of clear epoxy. Low junction capacitance permits fast response time.

## 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 VTP curves, pages 45-46)

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VTP4085H			VTP4085SH			UNITS
			Min.	Typ.	Max.	Min.	Typ.	Max.	
I <sub>SC</sub>	Short Circuit Current	H = 100 fc, 2850		200			200		μA
TC I <sub>SC</sub>	I <sub>SC</sub> Temperature Coefficient	2850 K		.20			.20		%/°C
I <sub>SC</sub>	Short Circuit Current	100 μW/cm <sup>2</sup> , 940 nm	11.4	15		11.4	15		μA
V <sub>OC</sub>	Open Circuit Voltage	H = 100 fc, 2850 K		.33			.33		mV
TC V <sub>OC</sub>	V <sub>OC</sub> Temperature Coefficient	2850 K		-2.0			-2.0		mV/°C
I <sub>D</sub>	Dark Current	H = 0, VR = 100 V			100		15	50	nA
R <sub>SH</sub>	Shunt Resistance	H = 0, V = 10 mV		2.0			4.0		MΩ
TC R <sub>SH</sub>	R <sub>SH</sub> Temperature Coefficient	H = 0, V = 10 mV		-11			-11		%/°C
C <sub>J</sub>	Junction Capacitance	H = 0, V = 0 V		.35			.35		nF
λ <sub>range</sub>	Spectral Application Range		400		1100	400		1100	nm
λ <sub>p</sub>	Spectral Response - Peak			925			925		nm
S <sub>R</sub>	Sensitivity	@ Peak		.55			.55		A/W