



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!



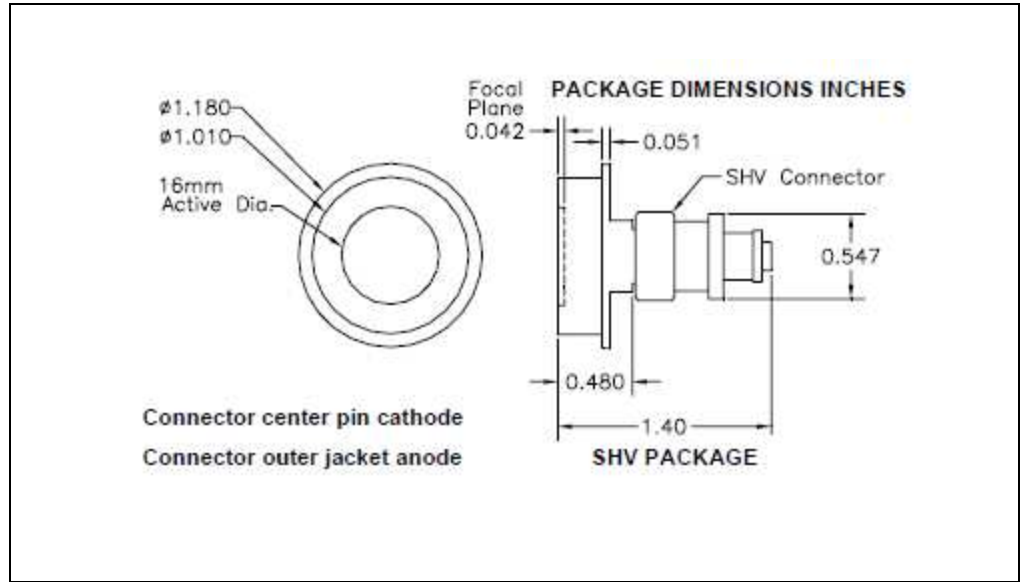
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DESCRIPTION

The **SD 630-70-72-500** is a windowless non-cooled large area red enhanced silicon avalanche photodiode (APD) with high gain and low noise in a SHV package.

FEATURES

- Low Noise
- High Gain
- High Speed
- Windowless

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Instrumentation
- Medical

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Gain	-	-	250	-	$T_a = 23^{\circ}\text{C}$ UNLESS NOTED OTHERWISE
Storage Temperature	-55	to	+70	$^{\circ}\text{C}$	-
Operating Temperature	-55	to	+40	$^{\circ}\text{C}$	-
Soldering Temperature*	-	-	+240	$^{\circ}\text{C}$	-

* 1/16 inch from case for 3 seconds max

OPTO-ELECTRICAL PARAMETERS

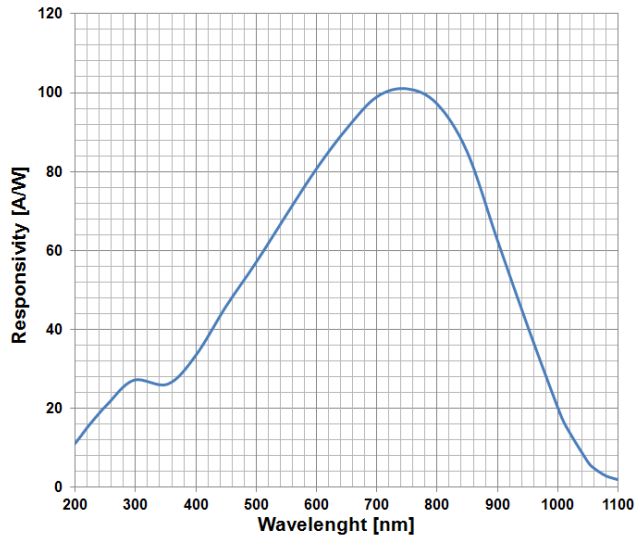
T_a = 23°C, Gain is M=200
UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Current	-	-	280	600	nA
Junction Capacitance	f = 1 MHz	-	130	-	pF
Noise Current Spectral Density	f = 100 kHz	-	2.5	5.5	pA/√Hz
Spectral Application Range	Spot Scan	300	-	1000	nm
Responsivity	λ = 750 nm	-	100	-	A/W
Operating Voltage	-	1700	-	2000	V
Temp. Coeff. Breakdown Voltage	Constant Gain =200	-	2	-	V
Response Time**	RL = 50Ω, λ = 675nm	-	12	18	nS

**Response time of 10% to 90% is specified at 675nm wavelength light.

TYPICAL PERFORMANCE

SPECTRAL SENSITIVITY



QUANTUM EFFICIENCY

