

# SOLDERABLE CHIPS

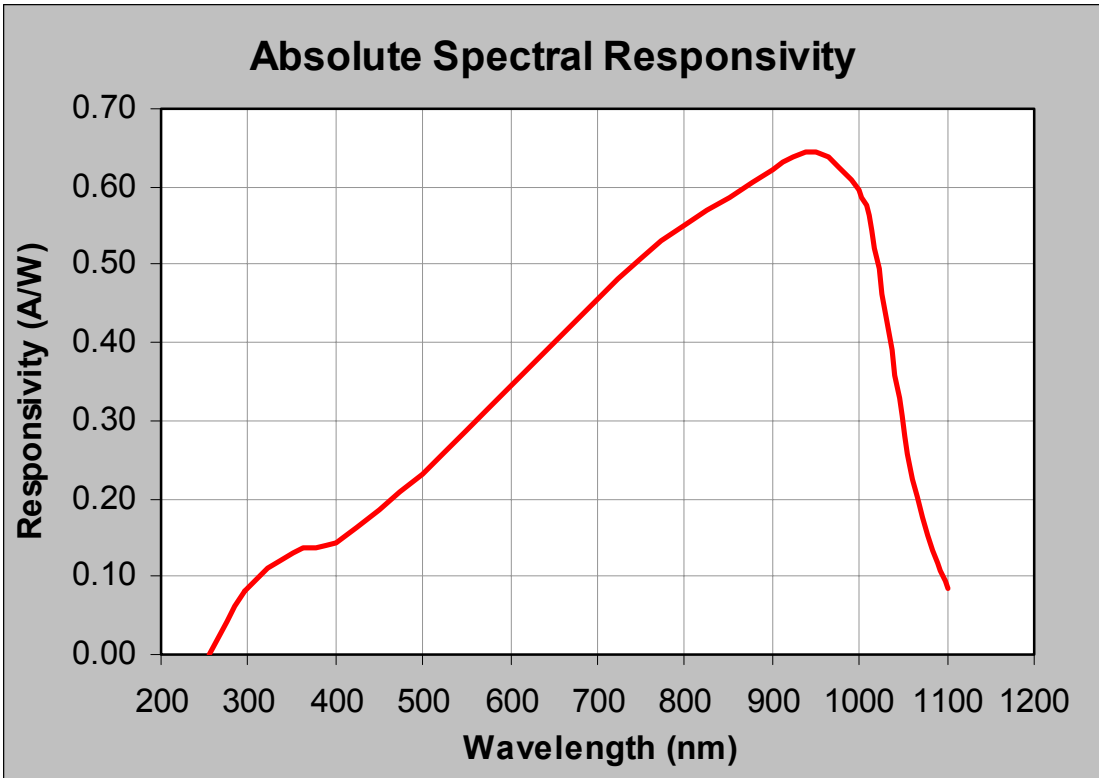
## SPECIFICATIONS

Responsivity: 0.34 A/W min., 0.40 A/W typ. @ 632.8nm; 0.55 A/W min., 0.66 A/W typ. @ 900nm

Part Number	Total Active Area (mm <sup>2</sup> )	Chip Dimensions (in)	I <sub>sc</sub> <sup>1</sup> Min. (mA)	Shunt Resistance <sup>2</sup> Min. (MΩ)	Dark Current <sup>2</sup> at 1V		Capacitance <sup>3</sup> Typ.		NEP <sup>4</sup> Typ. (W/√Hz)	Max Linear Current <sup>5</sup> Typ. (mA)
					Typ. (nA)	Max. (nA)	at 0V (pF)	at 1V (pF)		
SD 150-61-2537	9	0.197 x 0.087	0.3	10	2.5	10	200	122	4.7x10 <sup>-14</sup>	0.9
SD 61-2637	9	0.197 x 0.087	0.3	5	10	40	200	122	9.2x10 <sup>-13</sup>	0.9
SD 150-61-2536	21	0.197 x 0.189	0.7	3	6.3	25	460	285	7.0x10 <sup>-13</sup>	2.1
SD 61-2636	21	0.197 x 0.189	0.7	1.5	25	100	460	285	1.5x10 <sup>-13</sup>	2.1
SD 150-61-2534	43	0.197 x 0.390	1.4	2	13	50	940	580	1.0x10 <sup>-13</sup>	4.3
SD 61-2634	43	0.197 x 0.390	1.4	1.0	50	200	940	580	2.1x10 <sup>-13</sup>	4.3
SD 150-61-2535	87	0.197 x 0.787	2.9	1.0	25	100	1900	1175	1.3x10 <sup>-13</sup>	8.7
SD 61-2635	87	0.197 x 0.787	2.9	0.5	100	400	1900	1175	3.0x10 <sup>-13</sup>	8.7
SD 150-61-2539	93	0.393 x 0.393	3.1	1.0	30	120	2040	1255	1.5x10 <sup>-13</sup>	9.3
SD 61-2639	93	0.393 x 0.393	3.1	0.5	120	480	2040	1255	3.1x10 <sup>-13</sup>	9.3

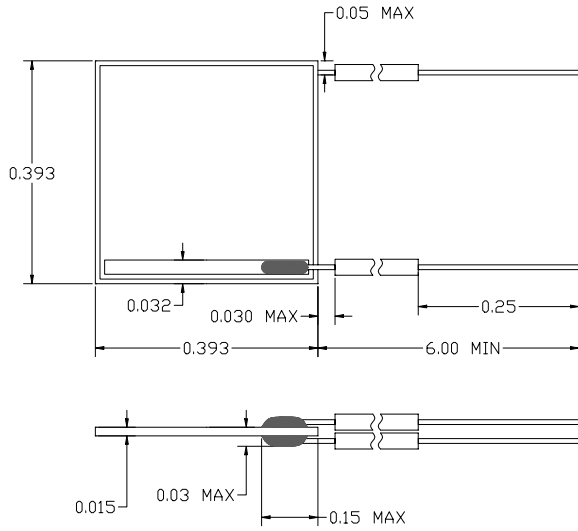
\* All values at 23°C

- Short Circuit Current (I<sub>sc</sub>) is measured at 10mW/cm<sup>2</sup> from a tungsten light source at 2800K.
- Dark Current and Shunt Resistance vary with temperature as follows; for T≠23°C, I<sub>DT</sub> = I<sub>D23</sub> \* 1.09<sup>ΔT</sup>,  
R<sub>SHT</sub> = R<sub>SH23</sub> \* 0.9<sup>ΔT</sup>, where ΔT=(T-23) and I<sub>D23</sub> and R<sub>SH23</sub> are values at 23°C.
- Typical values listed. Maximum value shall be 20% higher than the typical.
- Test conditions are V<sub>B</sub> = -1V, and 950 nm.
- In photovoltaic mode. Maximum linear current specifies the level at which the output current characteristic deviates more than 10% from the straight line. The short circuit current saturates at approximately 10 times this level.  
Storage and Operating Temperature Range for all die is -55°C to 125°C.

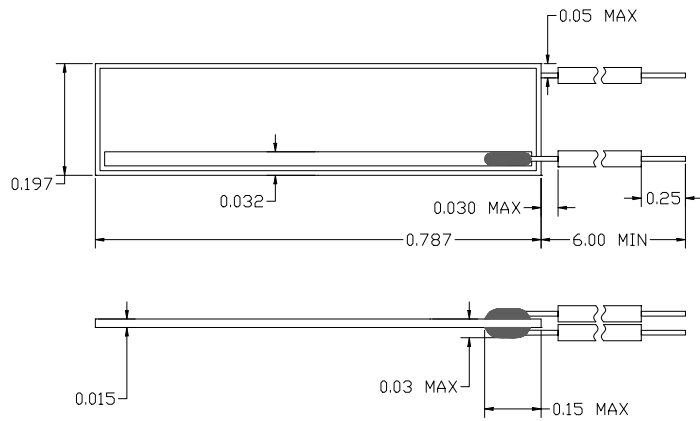


# Dimensional Outlines

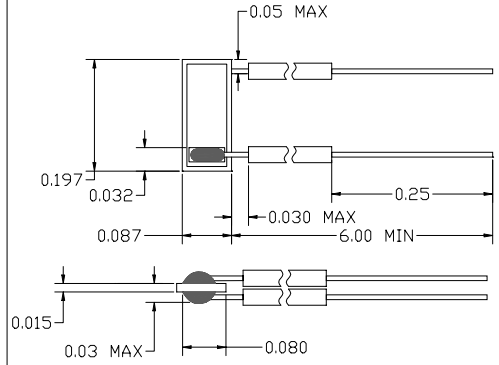
**SD 150-61-2539**  
**SD 61-2639**



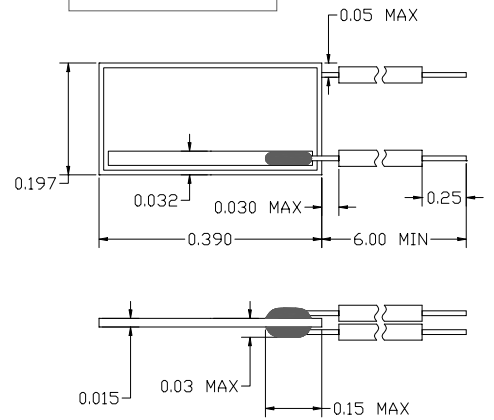
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