SOLDERABLE CHIPS

SPECIFICATIONS

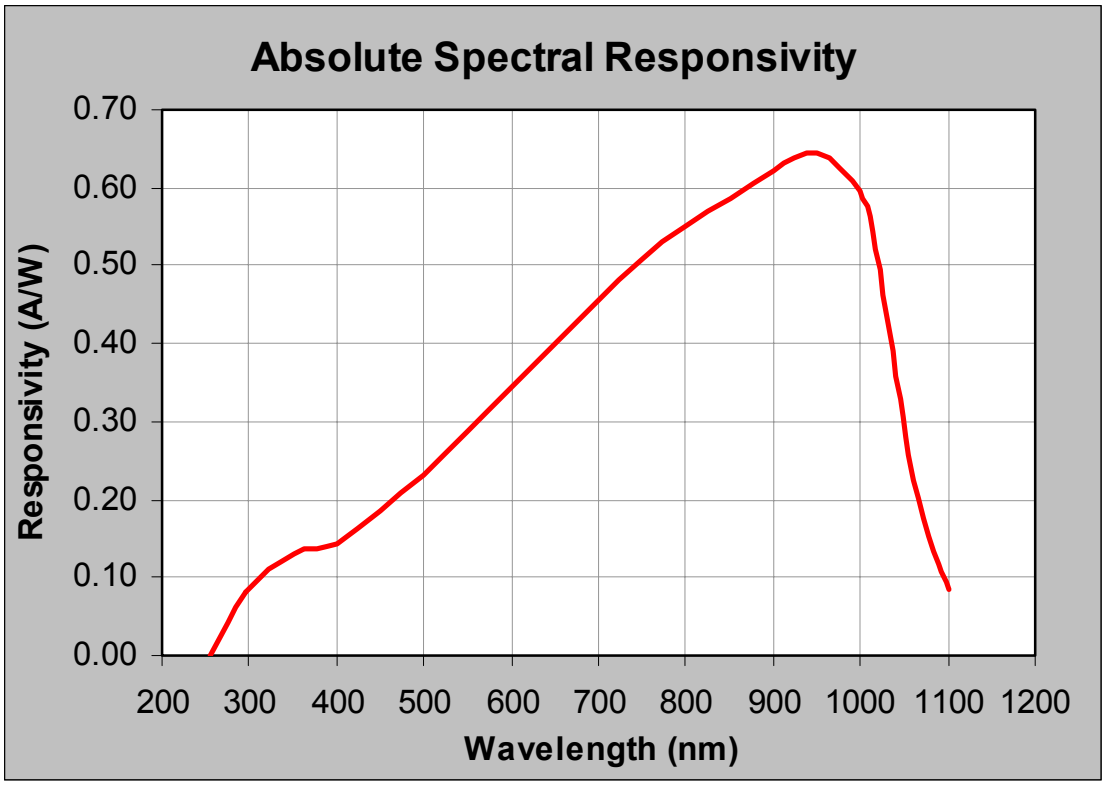
Responsivity: 0.34 A/W min., 0.40 A/W typ. @ 632.8nm; 0.55 A/W min., 0.66 A/W typ. @ 900nm

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

* All values at 23°C

1. Short Circuit Current (I_{SC}) is measured at 10mW/cm^2 from a tungsten light source at 2800K.
2. Dark Current and Shunt Resistance vary with temperature as follows; for T≠23°C, $I_{DT} = I_{D23} * 1.09^{\Delta T}$, $R_{SHT} = R_{SH23} * 0.9^{\Delta T}$, where $\Delta T=(T-23)$ and I_{D23} and R_{SH23} are values at 23°C.
3. Typical values listed. Maximum value shall be 20% higher than the typical.
4. Test conditions are V_B = -1V, and 950 nm.
5. 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.

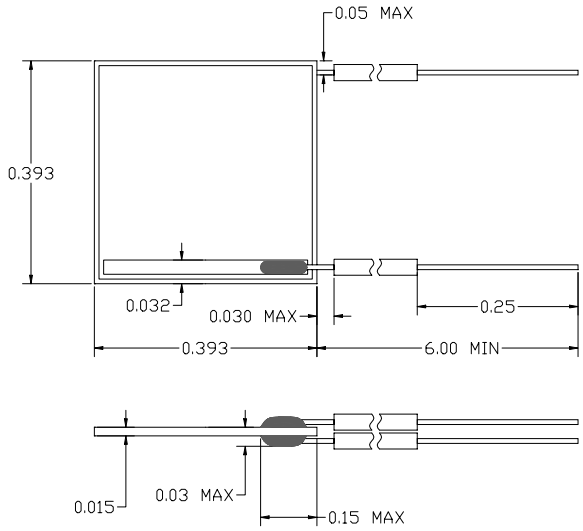
Storage and Operating Temperature Range for all die is -55°C to 125°C.



Dimensional Outlines

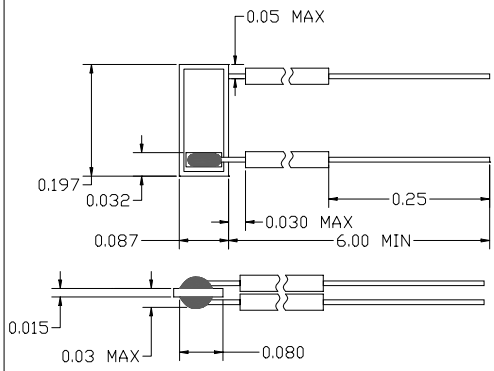
SD 150-61-2539

SD 61-2639



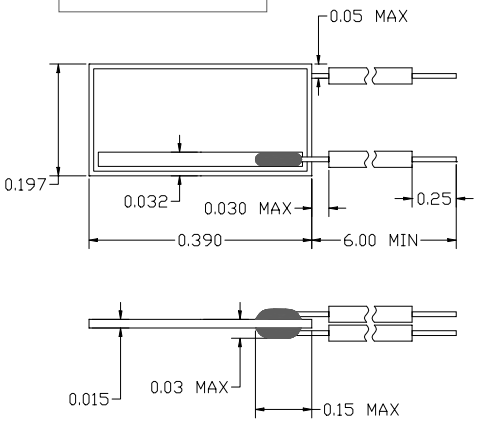
SD 150-61-2537

SD 61-2637



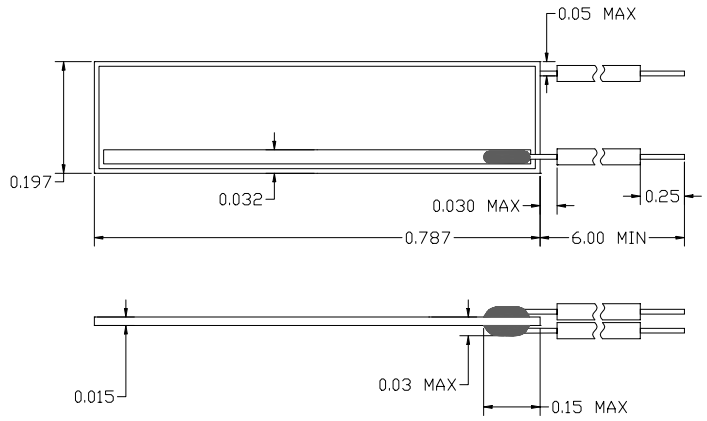
SD 150-61-2534

SD 61-2634



SD 150-61-2535

SD 61-2635



SD 150-61-2536

SD 61-2636