

Die Products:

***Schottky, Power Rectifier,
TVS, Zener, & Small Signal***

Schottky Rectifier Die

Sensitron

www.sensitron.com/dieproducts.htm

Part Number	Max V _{RM}	Die Size	I _O Max	I _{FSM}	V _F @ I _O 25° C	V _F @ I _O 125° C	I _R @ V _{RM} 25° C	I _R @ V _{RM} 125° C	C _T	T _J
	V	mil	A	A	V	V	mA	mA	pF	° C
SD040SD15A/B	15	40	1	20	0.37	0.33**	0.5	25*	80	100
SD040SA30A/B	30	40	1	20	0.49	0.39	0.12	6	90	150
SD040SA45A/B	45	40	1	20	0.56	0.51	0.1	4.5	53	150
SD040SE45A/B	45	40	1	20	0.51	0.47	0.1	20	60	125
SD040SA60A/B	60	40	1	20	0.56	0.51	0.1	9	53	150
SD040SB100A/B	100	40	1	20	0.84	0.68	0.03	0.6	35	175
SD040SC100A/B	100	40	1	20	0.84	0.68	0.03	0.6	35	200
SD040SC200A/B	200	40	1	20	0.92	0.76	0.03	0.6	20	200
SD060SD15A/B	15	60	3	55	0.37	0.33**	1.5	70*	240	100
SD060SA30A/B	30	60	3	55	0.49	0.39	0.4	20	220	150
SD060SA45A/B	45	60	3	55	0.56	0.51	0.3	14	160	150
SD060SE45A/B	45	60	3	55	0.51	0.47	0.3	55	180	125
SD060SA60A/B	60	60	3	55	0.56	0.51	0.4	28	160	150
SD060SB100A/B	100	60	3	55	0.84	0.68	0.07	1.6	100	175
SD060SC100A/B	100	60	3	55	0.84	0.68	0.07	1.6	100	200
SD060SC150A/B	150	60	3	55	0.84	0.68	0.07	1.6	100	200
SD060SC200A/B	200	60	3	55	0.92	0.76	0.07	1.6	60	200
SD090SD15A/B/C	15	90	7.5	140	0.37	0.33**	3.5	170*	600	100
SD090SA30A/B/C	30	90	7.5	140	0.49	0.39	1	50	550	150
SD090SA45A/B/C	45	90	7.5	140	0.56	0.51	0.75	35	400	150
SD090SE45A/B/C	45	90	7.5	140	0.51	0.47	0.8	120	430	125
SD090SA60A/B/C	60	90	7.5	140	0.56	0.51	1	70	400	150
SD090SB100A/B/C	100	90	7.5	140	0.84	0.68	0.18	4	250	175
SD090SC100A/B/C	100	90	7.5	140	0.84	0.68	0.18	4	250	200
SD090SC150A/B/C	150	90	7.5	140	0.84	0.68	0.25	4	250	200
SD090SC200A/B/C	200	90	7.5	140	0.92	0.76	0.18	4	150	200
SD125SD15A/B/C	15	125	15	280	0.37	0.33**	7	340*	1200	100
SD125SA30A/B/C	30	125	15	280	0.49	0.39	2	100	1100	150
SD125SE30A/B/C	30	125	15	280	0.45	0.32	2	480	1350	125
SD125SA45A/B/C	45	125	15	280	0.56	0.51	1.5	70	800	150
SD125SE45A/B/C	45	125	15	280	0.51	0.47	1.5	250	870	125
SD125SB45A/B/C	45	125	16	280	0.64	0.57	0.4	15	800	175
SD125SA60A/B/C	60	125	15	280	0.56	0.51	2	140	800	150
SD125SB100A/B/C	100	125	16	240	0.85	0.69	0.35	8	500	175
SD125SC100A/B/C	100	125	15	280	0.84	0.68	0.35	8	500	200
SD125SC150A/B/C	150	125	15	280	0.84	0.68	0.5	8	500	200
SD125SC200A/B/C	200	125	15	280	0.92	0.76	0.35	8	300	200
SD175SD15A/B/C	15	175	30	570	0.37	0.33**	14	680*	2400	100
SD175SA30A/B/C	30	175	30	570	0.49	0.39	4	200	2200	150
SD175SE45A/B/C	45	175	30	570	0.51	0.47	3.5	500	1700	125
SD175SA45A/B/C	45	175	30	570	0.56	0.51	3	140	1600	150
SD175SA60A/B/C	60	175	30	570	0.56	0.51	4	280	1600	150

Schottky Rectifier Die

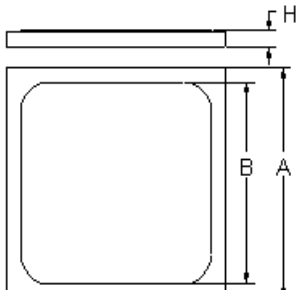
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Part Number	Max V _{RM}	Die Size	I _o Max	I _{FSM}	V _F @ I _o 25° C	V _F @ I _o 125° C	I _R @ V _{RM} 25° C	I _R @ V _{RM} 125° C	C _T	T _J
	V	mil	A	A	V	V	mA	mA	pF	° C
SD175SC100A/B/C	100	175	30	570	0.84	0.68	0.75	15	1000	200
SD175SC150A/B/C	150	175	30	570	0.89	0.74	1	16	1000	200
SD175SC200A/B/C	200	175	30	570	0.92	0.76	0.7	16	600	200
SD200SD15A/B/C	15	200	60	860	0.41	0.37**	20	1000†	3600	100
SD200SA30A/B/C	30	200	60	860	0.53	0.43	6	300	3300	150
SD200SE45A/B/C	45	200	60	860	0.54	0.5	5	800	2600	125
SD200SA45A/B/C	45	200	60	860	0.6	0.57	4.5	210	2400	150
SD200SA60A/B/C	60	200	60	860	0.56	0.57	6	420	2400	150
SD200SB100A/B/C	100	200	60	720	0.87	0.72	1	24	1500	175
SD200SC100A/B/C	100	200	60	860	0.87	0.72	1	24	1500	200
SD200SC150A/B/C	150	200	60	860	0.87	0.72	1.5	24	1500	200
SD200SC200A/B/C	200	200	60	860	0.95	0.79	1.1	24	900	200
SD275SE30A/B/C	20	275	120	1650	0.42	0.3	20	3000	8100	150
SD275SA30A/B/C	30	275	120	1650	0.53	0.43	12	600	6600	150
SD275SB45A/B/C	45	275	120	1650	0.66	0.59	2.4	90	4800	175
SD275SA45A/B/C	45	275	120	1650	0.6	0.57	9	420	4800	150
SD275SC100A/B/C	100	275	120	1650	0.87	0.72	2.1	48	3000	200
SD275SC150A/B/C	150	275	120	1650	0.87	0.72	3	48	3000	200

Schottky Chip Mechanical Dimensions: In Inches / mm

* T_J=100°C ** T_J=75°C



Bottom side metalization Ti/Ni/Ag - 30 kÅ minimum.

Top side metalization Al - 25 kÅ minimum or Ag - 30 kÅ minimum.

Bottom side is cathode, top side is anode.

Dimension H = 0.0105 ± 0.001 (0.27 ± 0.026) for Al top;

Dimension H = 0.0155 ± 0.001 (0.39 ± 0.026) for Ag top.

A	B
0.040 ± 0.003 (1.02 ± 0.08)	0.034 ± 0.003 (0.86 ± 0.08)
0.060 ± 0.003 (1.52 ± 0.08)	0.054 ± 0.005 (1.37 ± 0.08)
0.090 ± 0.003 (2.29 ± 0.08)	0.081 ± 0.003 (2.06 ± 0.08)
0.125 ± 0.003 (3.18 ± 0.08)	0.116 ± 0.003 (2.95 ± 0.08)
0.175 ± 0.003 (4.45 ± 0.08)	0.163 ± 0.003 (4.14 ± 0.08)
0.200 ± 0.003 (5.08 ± 0.08)	0.191 ± 0.003 (4.85 ± 0.08)
0.275 ± 0.003 (6.99 ± 0.08)	0.267 ± 0.003 (6.78 ± 0.08)

Note: A complete Part Number should include metalization selection by adding suffix **A**, **B** or **C**, ie: (REFER TO CHART ON LAST PAGE)

SD175SB45A

SD Sensitron Die.

175 Die Size in Mils.

SB S: Schottky; **A:** T_{JM} = 150 °C; **B:** T_{JM} = 175 °C; **C:** T_{JM} = 200 °C

45 Voltage Rating in Volts.

A Metalization - **A:** Aluminum Top / Silver Bottom; **B:** Silver Top / Silver Bottom; **C:** Gold Plated Molybdenum Tab Top/Silver Bottom

Silicon Rectifier Die

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UltraFast Recovery (<100ns)

Part Number	Metal System	Size (mil)	PIV (Volt)	I _O @ T _A (Amp@°C)	V _F @ I _F (Volt)	I _R @ PIV (uA)	I _R @ PIV @ T _A (uA@ °C)	t _{rr} ⁽¹⁾ (ns)	T _{J,Max} (°C)
MURC105	A/B	37	50	1.0 @ 130	0.875 @ 1.0 A	2.0	50 @ 150	25	175
MURC110	A/B	37	100	1.0 @ 130	0.875 @ 1.0 A	2.0	50 @ 150	25	175
MURC115	A/B	37	150	1.0 @ 130	0.875 @ 1.0 A	2.0	50 @ 150	25	175
MURC120	A/B	37	200	1.0 @ 130	0.875 @ 1.0 A	2.0	50 @ 150	25	175
MURC130	A/B	37	300	1.0 @ 120	1.25 @ 1.0 A	5.0	150 @ 150	50	175
MURC140	A/B	37	400	1.0 @ 120	1.25 @ 1.0 A	5.0	150 @ 150	50	175
MURC160	A/B	37	600	1.0 @ 120	1.25 @ 1.0 A	5.0	150 @ 150	50	175
MURC210	A/B	40	100	2.0 @ 100	0.95 @ 2.0 A	2.0	50 @ 150	25	175
MURC220	A/B	40	200	2.0 @ 90	0.95 @ 2.0 A	2.0	50 @ 150	25	175
MURC240	A/B	40	400	2.0 @ 85	1.3 @ 2.0 A	5.0	150 @ 150	50	175
MURC260	A/B	40	600	2.0 @ 60	1.35 @ 2.0 A	5.0	150 @ 150	50	175
MURC405	A/B	65	50	4.0 @ 80	0.89 @ 4.0 A	5.0	150 @ 150	25	175
MURC410	A/B	65	100	4.0 @ 80	0.89 @ 4.0 A	5.0	150 @ 150	25	175
MURC415	A/B	65	150	4.0 @ 80	0.89 @ 4.0 A	5.0	150 @ 150	25	175
MURC420	A/B	65	200	4.0 @ 80	0.89 @ 4.0 A	5.0	150 @ 150	25	175
MURC440	A/B	65	400	4.0 @ 40	1.28 @ 4.0 A	10.0	250 @ 150	50	175
MURC460	A/B	65	600	4.0 @ 40	1.28 @ 4.0 A	10.0	250 @ 150	50	175
MURC520	A/B	85	200	5.0 @ 105	0.98 @ 5.0 A	5.0	150 @ 150	35	150
MURC620	A/B	85	200	6.0 @ 130	0.975 @ 6.0 A	5.0	250 @ 150	30	150
MURC805	A/B	85	50	8.0 @ 150	0.975 @ 8.0 A	5.0	250 @ 150	25	175
MURC810	A/B	85	100	8.0 @ 150	0.975 @ 8.0 A	5.0	250 @ 150	25	175
MURC815	A/B	85	150	8.0 @ 150	0.975 @ 8.0 A	5.0	250 @ 150	25	175
MURC820	A/B	85	200	8.0 @ 150	0.975 @ 8.0 A	5.0	250 @ 150	25	175
MURC840	A/B	85	400	8.0 @ 150	1.3 @ 8.0 A	10.0	500 @ 150	50	175
MURC860	A/B	85	600	8.0 @ 150	1.5 @ 8.0 A	10.0	500 @ 150	50	150
MURC1020	A/B	85	200	10.0 @ 100	1.2 @ 10A	10.0	250 @ 150	25	150
MURC1060	A/B	85	600	10.0 @ 100	2.2 @ 10A	10.0	500 @ 150	50	150
MURC1510	A/B	120	100	15.0 @ 150	1.05 @ 15 A	10.0	500 @ 150	25	175
MURC1515	A/B	120	150	15.0 @ 150	1.05 @ 15 A	10.0	500 @ 150	25	175
MURC1520	A/B	120	200	15.0 @ 150	1.05 @ 15 A	10.0	500 @ 150	25	175
MURC1540	A/B	120	400	15.0 @ 150	1.25 @ 15.0 A	10.0	500 @ 150	50	150
MURC1560	A/B	120	600	15.0 @ 145	1.5 @ 15.0 A	10.0	1000 @ 150	50	150
SD085UF150X25	A/B	85	150	8	0.975 @ 8.0 A	5.0	250 @ 150	25	175
SD085UF200X25	A/B	85	200	8	0.975 @ 8.0 A	5.0	250 @ 150	25	175
SD085UF300X40	A/B	85	300	8	1.3 @ 8.0 A	5.0	500 @ 150	40	175
SD085UF400X50	A/B	85	400	8	1.3 @ 8.0 A	10.0	500 @ 150	50	175
SD085UF500X50	A/B	85	500	8	1.3 @ 8.0 A	10.0	500 @ 150	50	175
SD085UF600X50	A/B	85	600	8	1.5 @ 8.0 A	10.0	500 @ 150	50	175
SD085UF800X60	A/B	85	800	8	1.5 @ 8.0 A	15.0	500 @ 150	60	175
SD120UF150X30	A/B	120	150	15	0.975 @ 15 A	5.0	1000 @ 125	30	175
SD120UF200X30	A/B	120	200	15	0.975 @ 15 A	5.0	1000 @ 125	30	175
SD120UF300X35	A/B	120	300	15	1.2 @ 15 A	5.0	1000 @ 125	35	175
SD120UF400X45	A/B	120	400	15	1.2 @ 15 A	10.0	1000 @ 125	45	175
SD120UF500X45	A/B	120	500	15	1.2 @ 15 A	10.0	1000 @ 125	45	175
SD120UF600X60	A/B	120	600	15	1.3 @ 15 A	10.0	1000 @ 125	60	175
SD120UF800X60	A/B	120	800	15	1.3 @ 15 A	15.0	1000 @ 125	60	175
SD140UF150X35	A/B	140	150	25	0.975 @ 25 A	5.0	1000 @ 125	35	175
SD140UF200X35	A/B	140	200	25	0.975 @ 25 A	5.0	1000 @ 125	35	175
SD140UF300X35	A/B	140	300	25	1.2 @ 25 A	5.0	1000 @ 125	35	175
SD140UF400X50	A/B	140	400	25	1.2 @ 25 A	10.0	1000 @ 125	50	175
SD140UF500X50	A/B	140	500	25	1.2 @ 25 A	10.0	1000 @ 125	50	175
SD140UF600X70	A/B	140	600	25	1.3 @ 25 A	10.0	1000 @ 125	70	175
SD140UF800X70	A/B	140	800	25	1.3 @ 25 A	15.0	1000 @ 125	70	175

Silicon Rectifier Die

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UltraFast Recovery (<100ns), continued

Part Number	Metal System	Size (mil)	PIV (Volt)	I _O @ T _A (Amp@°C)	V _F @ I _F (Volt)	I _R @ PIV (uA)	I _R @ PIV @ T _A (uA@°C)	t _{rr} ⁽¹⁾ (ns)	T _{J,Max} (°C)
SD165UF150X35	A/B	165	150	30	0.975 @ 30 A	10.0	1000 @ 125	35	175
SD165UF200X35	A/B	165	200	30	0.975 @ 30 A	10.0	1000 @ 125	35	175
SD165UF300X50	A/B	165	300	30	1.2 @ 30 A	10.0	1000 @ 125	50	175
SD165UF400X50	A/B	165	400	30	1.2 @ 30 A	15.0	1000 @ 125	50	175
SD165UF500X50	A/B	165	500	30	1.2 @ 30 A	15.0	1000 @ 125	50	175
SD165UF600X70	A/B	165	600	30	1.3 @ 30 A	15.0	1000 @ 125	70	175
SD165UF800X70	A/B	165	800	30	1.3 @ 30 A	20.0	1000 @ 125	70	175
SD200UF150X50	A/B	200	150	60	0.975 @ 60 A	15.0	2000 @ 125	50	175
SD200UF200X50	A/B	200	200	60	0.975 @ 60 A	15.0	2000 @ 125	50	175
SD200UF300X60	A/B	200	300	60	1.2 @ 60 A	15.0	2000 @ 125	60	175
SD200UF400X60	A/B	200	400	60	1.2 @ 60 A	20.0	2000 @ 125	60	175
SD200UF500X60	A/B	200	500	60	1.2 @ 60 A	20.0	2000 @ 125	60	175
SD200UF600X75	A/B	200	600	60	1.3 @ 60 A	20.0	2000 @ 125	75	175
SD200UF800X75	A/B	200	800	60	1.3 @ 60 A	25.0	2000 @ 125	75	175
SD215UF150X50	A/B	215	150	70	0.975 @ 70 A	20.0	2000 @ 125	50	175
SD215UF200X50	A/B	215	200	70	0.975 @ 70 A	20.0	2000 @ 125	50	175
SD215UF300X60	A/B	215	300	70	1.2 @ 70 A	20.0	2000 @ 125	60	175
SD215UF400X60	A/B	215	400	70	1.2 @ 70 A	25.0	2000 @ 125	60	175
SD215UF500X60	A/B	215	500	70	1.2 @ 70 A	25.0	2000 @ 125	60	175
SD215UF600X75	A/B	215	600	70	1.3 @ 70 A	25.0	2000 @ 125	75	175
SD215UF800X75	A/B	215	800	70	1.3 @ 70 A	30.0	2000 @ 125	75	175
1C5802	A	40	50	1.0 @ 55	0.875 @ 1.0 A	1.0	50 @ 100	25 ⁽²⁾	175
1C5804	A	40	100	1.0 @ 55	0.875 @ 1.0 A	1.0	50 @ 100	25 ⁽²⁾	175
1C5806	A	40	150	1.0 @ 55	0.875 @ 1.0 A	1.0	50 @ 100	25 ⁽²⁾	175
1C5807	A	65	150	3.0 @ 55	0.875 @ 4.0 A	5.0	150 @ 100	30 ⁽³⁾	175
1C5809	A	65	100	3.0 @ 55	0.875 @ 4.0 A	5.0	150 @ 100	30 ⁽³⁾	175
1C5811	A	65	150	3.0 @ 55	0.875 @ 4.0 A	5.0	150 @ 100	30 ⁽³⁾	175
1C6620	A	37	200	1.2 @ 55	1.6 @ 2.0 A	0.5	150 @ 150	30	175
1C6621	A	37	400	1.2 @ 55	1.6 @ 2.0 A	0.5	150 @ 150	30	175
1C6622	A	37	600	1.2 @ 55	1.6 @ 2.0 A	0.5	150 @ 150	30	175
1C6623	A	37	800	1.0 @ 55	1.8 @ 1.5 A	0.5	150 @ 150	50	175
1C6624	A	37	900	1.0 @ 55	1.8 @ 1.5 A	0.5	150 @ 150	50	175
1C6626	A	65	200	2.0 @ 75	1.5 @ 4.0 A	2.0	500 @ 150	30	175
1C6627	A	65	400	2.0 @ 75	1.5 @ 4.0 A	2.0	500 @ 150	30	175
1C6628	A	65	600	2.0 @ 75	1.5 @ 4.0 A	2.0	500 @ 150	30	175
1C6629	A	65	800	1.4 @ 75	1.7 @ 3.0 A	2.0	500 @ 150	50	175
1C6630	A	65	900	1.4 @ 75	1.7 @ 3.0 A	2.0	500 @ 150	50	175
1C6657	A	120	100	15.0 @ 100	1.000 @10 A	10.0	1000 @ 100	35 ⁽³⁾	200
1C6658	A	120	150	15.0 @ 100	1.000 @10 A	10.0	1000 @ 100	35 ⁽³⁾	200
1C6659	A	120	200	15.0 @ 100	1.000 @10 A	10.0	1000 @ 100	35 ⁽³⁾	200

- (1) The test conditions for reverse recovery time, t_{rr}, are I_f=500mA, I_r=1A, and I_{rm}=250mA
(2) The test conditions for reverse recovery time, t_{rr}, are I_f=500mA, I_r=500mA, and I_{rm}=50mA
(3) The test conditions for reverse recovery time, t_{rr}, are I_f=1A, I_r=1A, and I_{rm}=100mA

Silicon Rectifier Die

Sensitron

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Fast Recovery (100-500ns)

Part Number	Metal System	Size (mil)	PIV (Volt)	I _O @ T _A (Amp@°C)	V _F @ I _F (Volt)	I _R @ PIV (uA)	I _R @ PIV @ T _A (uA@°C)	t _{rr} ⁽¹⁾ (ns)	T _{J,Max} (°C)
1C4942	A	40	200	1.0 @ 55	1.300 @ 1.0 A	1.0	200 @ 150	150	175
1C4942	A	40	200	1.0 @ 55	1.300 @ 1.0 A	1.0	200 @ 150	150	175
1C4944	A	40	400	1.0 @ 55	1.300 @ 1.0 A	1.0	200 @ 150	150	175
1C4944	A	40	400	1.0 @ 55	1.300 @ 1.0 A	1.0	200 @ 150	150	175
1C4946	A	40	600	1.0 @ 55	1.300 @ 1.0 A	1.0	200 @ 150	250	175
1C4946	A	40	600	1.0 @ 55	1.300 @ 1.0 A	1.0	200 @ 150	250	175
1C4947	A	40	800	1.0 @ 55	1.300 @ 1.0 A	1.0	200 @ 150	250	175
1C4947	A	40	800	1.0 @ 55	1.300 @ 1.0 A	1.0	200 @ 150	250	175
1C5186	A	40	100	3.0 @ 25	1.5 @ 9.0 A	2.0	100 @ 100	150	175
1C5187	A	40	200	3.0 @ 25	1.5 @ 9.0 A	2.0	100 @ 100	200	175
1C5188	A	40	400	3.0 @ 25	1.5 @ 9.0 A	2.0	100 @ 100	250	175
1C5190	A	40	600	3.0 @ 25	1.5 @ 9.0 A	2.0	100 @ 100	400	175
1C5415	A	65	50	3.0 @ 55	1.5 @ 9.0 A	1.0	20 @ 100	150	175
1C5416	A	65	100	3.0 @ 55	1.5 @ 9.0 A	1.0	20 @ 100	150	175
1C5417	A	65	200	3.0 @ 55	1.5 @ 9.0 A	1.0	20 @ 100	150	175
1C5418	A	65	400	3.0 @ 55	1.5 @ 9.0 A	1.0	20 @ 100	150	175
1C5419	A	65	500	3.0 @ 55	1.5 @ 9.0 A	1.0	20 @ 100	250	175
1C5420	A	65	600	3.0 @ 55	1.5 @ 9.0 A	1.0	20 @ 100	400	175
1C5615	A	40	200	1.0 @ 55	1.6 @ 3.0 A	0.5	25 @ 100	150	175
1C5617	A	40	400	1.0 @ 55	1.6 @ 3.0 A	0.5	25 @ 100	150	175
1C5619	A	40	600	1.0 @ 55	1.6 @ 3.0 A	0.5	25 @ 100	250	175
1C5621	A	40	800	1.0 @ 55	1.6 @ 3.0 A	0.5	25 @ 100	300	175

(1) The test conditions for reverse recovery time, t_{rr} are I_r=500mA, I_r=1A, and I_{rm}=250mA

General Purpose (more than 500ns)

Part Number	Metal System	Size (mil)	PIV (Volt)	I _O @ T _A (Amp@°C)	V _F @ I _F (Volt)	I _R @ PIV (uA)	I _R @ PIV @ T _A (uA@°C)	t _{rr} ⁽¹⁾ (ns)	T _{J,Max} (°C)
1C3611	A	40	200	1.0 @ 100	1.1 @ 1.0 A	1.0	300 @ 150	5000	175
1C3612	A	40	400	1.0 @ 100	1.1 @ 1.0 A	1.0	300 @ 150	5000	175
1C3613	A	40	600	1.0 @ 100	1.1 @ 1.0 A	1.0	300 @ 150	5000	175
1C3614	A	40	800	1.0 @ 100	1.1 @ 1.0 A	1.0	300 @ 150	5000	175
1C4001	A	40	50	1.0 @ 55	1.1 @ 1.0 A	10.0	50 @ 100	2000	175
1C4002	A	40	100	1.0 @ 55	1.1 @ 1.0 A	10.0	50 @ 100	2000	175
1C4003	A	40	200	1.0 @ 55	1.1 @ 1.0 A	10.0	50 @ 100	2000	175
1C4004	A	40	400	1.0 @ 55	1.1 @ 1.0 A	10.0	50 @ 100	2000	175
1C4005	A	40	600	1.0 @ 55	1.1 @ 1.0 A	10.0	50 @ 100	2000	175
1C4006	A	40	800	1.0 @ 55	1.1 @ 1.0 A	10.0	50 @ 100	2000	175
1C4245	A	40	200	1.0 @ 100	1.3 @ 3.0 A	1.0	150 @ 150	5000	175
1C4246	A	40	400	1.0 @ 100	1.3 @ 3.0 A	1.0	150 @ 150	5000	175
1C4247	A	40	600	1.0 @ 100	1.3 @ 3.0 A	1.0	150 @ 150	5000	175
1C4248	A	40	800	1.0 @ 100	1.3 @ 3.0 A	1.0	150 @ 150	5000	175
1C5550	A	65	200	3.0 @ 55	1.2 @ 9.0 A	1.0	75 @ 100	2000	175
1C5551	A	65	400	3.0 @ 55	1.2 @ 9.0 A	1.0	75 @ 100	2000	175
1C5552	A	65	600	3.0 @ 55	1.2 @ 9.0 A	1.0	75 @ 100	2000	175
1C5553	A	65	800	3.0 @ 55	1.2 @ 9.0 A	1.0	75 @ 100	2000	175
1C5614	A	40	200	1.0 @ 55	1.3 @ 3.0 A	0.5	25 @ 100	2000	175
1C5616	A	40	400	1.0 @ 55	1.3 @ 3.0 A	0.5	25 @ 100	2000	175
1C5618	A	40	600	1.0 @ 55	1.3 @ 3.0 A	0.5	25 @ 100	2000	175
1C5620	A	40	800	1.0 @ 55	1.3 @ 3.0 A	0.5	25 @ 100	2000	175

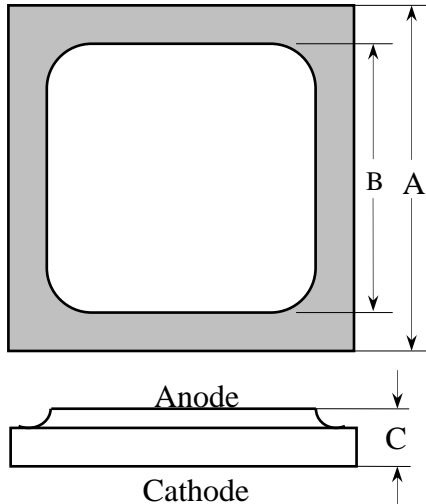
(1) The test conditions for reverse recovery time, t_{rr} are I_r=500mA, I_r=1A, and I_{rm}=250mA

Silicon Rectifier Die

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Silicon Rectifier Die Layout, dimensions are in inches (mm)



Standard Metalization:

Top side: Al - 25 kÅ minimum

Bottom side: Ti/Ni/Ag - 30 kÅ

Bottom side is cathode, top side is anode.

Note: Refer to chart on back page

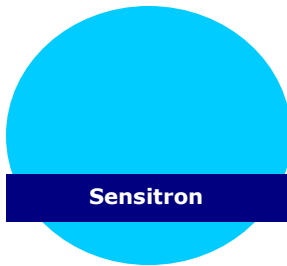
Die type	Area (mil ²)	Dimension A ⁽¹⁾ Inch (millimeter)	Dimension B ⁽¹⁾ Inch (millimeter)	Dimension C ⁽²⁾ Inch (millimeter)
Si p-n die	37 x 37	0.037 (0.940)	0.020 (0.508)	0.009 (0.229)
Si p-n die	40 x 40	0.040 (1.016)	0.024 (0.610)	0.009 (0.229)
Si p-n die	65 x 65	0.065 (1.651)	0.049 (1.254)	0.009 (0.229)
Si p-n die	85 x 85	0.085 (2.159)	0.069 (1.753)	0.009 (0.229)
Si p-n die	120 x 120	0.120 (3.048)	0.094 (2.388)	0.010 (0.254)
Si p-n die	140 x 140	0.140 (3.556)	0.114 (2.896)	0.010 (0.254)
Si p-n die	165 x 165	0.165 (4.191)	0.131 (3.327)	0.014 (0.356)
Si p-n die	200 x 200	0.200 (5.080)	0.168 (4.267)	0.014 (0.356)
Si p-n die	215 x 215	0.215 (5.461)	0.181 (4.597)	0.014 (0.356)

⁽¹⁾ Tolerance is ± 0.003 " (0.076 mm);

⁽²⁾ Tolerance is ± 0.001 " (0.025 mm).

Small Signal Switching Die

Type Number	Description
1C6638	150V, 0.3 AMP SMALL SIGNAL SWITCHING DIE
1C6642	100V, 0.3 AMP SMALL SIGNAL SWITCHING DIE
1C4148	100V, 0.2 AMP SMALL SIGNAL SWITCHING DIE
1C6640	75V, 0.3 AMP SMALL SIGNAL SWITCHING DIE
1C6641	75V, 0.3 AMP SMALL SIGNAL SWITCHING DIE
1C6643	75V, 0.3 AMP SMALL SIGNAL SWITCHING DIE
1C5711	70V, 0.033 AMP SMALL SIGNAL SWITCHING DIE
1C4150	75V, 0.2 AMP SMALL SIGNAL SWITCHING DIE



TVS Die

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Part Number	Breakdown Voltage $V_{BR} @ I_{BR}$	Test Current I_{BR}	Working Peak Reverse Voltage V_{RWM}	Max Reverse Current $I_{R1} @ V_{RWM}$	Max Clamping Voltage $V_c(max) @ I_p$ $t_p = 1ms$	Max Peak Pulse Current I_p	Max Temp Coeff of V_{BR} a V_{BR}
90 mils, 500W	Min V_{dc}	m A_{dc}	V_{dc}	μA_{dc}	V_{pk}	A_{pk}	%/ $^{\circ}C$
1C6105	8.19	150	6.9	20	14	35.7	0.06
1C6105A	8.65	150	6.9	20	13.4	37.3	0.06
1C6106	9	125	7.6	20	15.2	32.9	0.07
1C6106A	9.5	125	7.6	20	14.5	34.5	0.07
1C6107	9.9	125	8.4	20	16.3	30.7	0.07
1C6107A	10.45	125	8.4	20	15.6	32.0	0.07
1C6108	10.8	100	9.1	20	17.7	28.2	0.07
1C6108A	11.4	100	9.1	20	16.9	29.6	0.07
1C6109	11.7	100	9.9	20	19	26.3	0.08
1C6109A	12.35	100	9.9	20	18.2	27.5	0.08
1C6110	13.5	75	11.4	20	21.9	22.8	0.08
1C6110A	14.25	75	11.4	20	21	23.8	0.08
1C6111	14.4	75	12.2	20	23.4	21.4	0.08
1C6111A	15.2	75	12.2	20	22.3	22.4	0.08
1C6112	16.2	65	13.7	1	26.3	19.0	0.085
1C6112A	17.1	65	13.7	1	25.1	19.9	0.085
1C6113	18	65	15.2	1	29	17.2	0.085
1C6113A	19	65	15.2	1	27.7	18.0	0.085
1C6114	19.8	50	16.7	1	31.9	15.7	0.085
1C6114A	20.9	50	16.7	1	30.5	16.4	0.085
1C6115	21.6	50	18.2	1	34.8	14.4	0.09
1C6115A	22.8	50	18.2	1	33.3	15.0	0.09
1C6116	24.3	50	20.6	1	39.2	12.8	0.09
1C6116A	25.7	50	20.6	1	37.4	13.4	0.09
1C6117	27	40	22.8	1	43.6	11.5	0.09
1C6117A	28.5	40	22.8	1	41.6	12.0	0.09
1C6118	29.7	40	25.1	1	47.9	10.4	0.095
1C6118A	31.4	40	25.1	1	45.7	10.9	0.095
1C6119	32.4	30	27.4	1	52.3	9.6	0.095
1C6119A	34.2	30	27.4	1	49.9	10.0	0.095
1C6120	35.1	30	29.7	1	56.2	8.9	0.095
1C6120A	37.1	30	29.7	1	53.6	9.3	0.095
1C6121	38.7	30	32.7	1	62	8.1	0.095
1C6121A	40.9	30	32.7	1	59.1	8.5	0.095
1C6122	42.3	25	35.8	1	67.7	7.4	0.095
1C6122A	44.7	25	35.8	1	64.6	7.7	0.095
1C6123	45.9	25	38.8	1	73.5	6.8	0.095
1C6123A	48.5	25	38.8	1	70.1	7.1	0.095
1C6124	50.4	20	42.6	1	80.7	6.2	0.095
1C6124A	53.2	20	42.6	1	77	6.5	0.095
1C6125	55.8	20	47.1	1	89.3	5.6	0.1
1C6125A	58.9	20	47.1	1	85.3	5.9	0.1
1C6126	61.2	20	51.7	1	98	5.1	0.1
1C6126A	64.6	20	51.7	1	97.1	5.1	0.1
1C6127	67.5	20	56	1	108.1	4.6	0.1
1C6127A	71.3	20	56	1	103.1	4.8	0.1
1C6128	73.8	15	62.2	1	118.2	4.2	0.1
1C6128A	77.9	15	62.2	1	112.8	4.4	0.1
1C6129	81.9	15	69.2	1	131.1	3.8	0.1
1C6129A	86.5	15	69.2	1	125.1	4	0.1
1C6130	90	12	76	1	144.1	3.5	0.1
1C6130A	95	12	76	1	137.6	3.6	0.1

TVS Die

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Part Number	Breakdown Voltage $V_{BR} @ I_{BR}$	Test Current I_{BR}	Working Peak Reverse Voltage V_{RWM}	Max Reverse Current $I_{R1} @ V_{RWM}$	Max Clamping Voltage $V_c(max)@I_p$ $t_p=1ms$	Max Peak Pulse Current I_p	Max Temp Coeff of V_{BR} αV_{BR}
90 mils, 500W	Min V_{dc}	m A_{dc}	V_{dc}	μA_{dc}	V_{pk}	A_{pk}	%/°C
1C6131	99	12	83.6	1	158.5	3.2	0.1
1C6131A	104.5	12	83.6	1	151.3	3.3	0.1
1C6132	108	10	91.2	1	172.9	2.9	0.1
1C6132A	114	10	91.2	1	165.1	3	0.1
1C6133	117	10	98.8	1	187.3	2.7	0.105
1C6133A	123.5	10	98.8	1	178.8	2.8	0.105
1C6134	135	8	114	1	216.2	2.3	0.105
1C6134A	142.5	8	114	1	206.3	2.4	0.105
1C6135	144	8	121.6	1	228.8	2.2	0.105
1C6135A	152	8	121.6	1	218.4	2.3	0.105
1C6136	162	5	136.8	1	257.4	1.9	0.11
1C6136A	171	5	136.8	1	245.7	2	0.11
1C6137	180	5	152	1	286	1.7	0.11
1C6137A	190	5	152	1	273	1.8	0.11
1C6463	13.6	5	12	500	23	22	0.05
1C6464	16.4	5	15	500	26	19	0.06
1C6465	27	2	24	50	41	12	0.084
1C6466	33	1	30	30	48	11	0.093
1C6467	43.7	1	40	2	64	8	0.094
1C6468	54	1	52	2	78	6	0.096

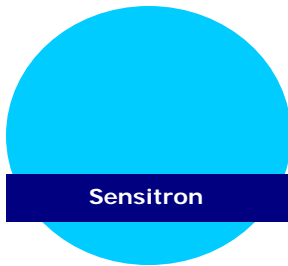
Part Number	Breakdown Voltage $V_{BR} @ I_{BR}$	Test Current I_{BR}	Working Peak Reverse Voltage V_{RWM}	Max Reverse Current $I_{R1} @ V_{RWM}$	Max Clamping Voltage $V_c(max)@I_p$ $t_p=1ms$	Max Peak Pulse Current I_p	Max Temp Coeff of V_{BR} αV_{BR}
125 mils, 1500W	Min V_{dc}	m A_{dc}	V_{dc}	μA_{dc}	V_{pk}	A_{pk}	%/°C
1C6142	9	125	7.6	100	15.2	98.7	0.07
1C6142A	9.5	125	7.6	100	14.5	103.4	0.07
1C6143	9.9	125	8.4	20	16.3	92	0.07
1C6143A	10.45	125	8.4	20	15.6	96.2	0.07
1C6144	10.8	100	9.1	20	17.7	84.7	0.07
1C6144A	11.4	100	9.1	20	16.9	88.8	0.07
1C6145	11.7	100	9.9	20	19	78.9	0.08
1C6145A	12.35	100	9.9	20	18.2	82.4	0.08
1C6146	13.5	75	11.4	20	21.9	68.5	0.08
1C6146A	14.25	75	11.4	20	21	71.4	0.08
1C6147	14.4	75	12.2	20	23.4	64.1	0.08
1C6147A	15.2	75	12.2	20	22.3	67.3	0.08
1C6148	16.2	65	13.7	10	26.3	57	0.085
1C6148A	17.1	65	13.7	10	25.1	59.8	0.085
1C6149	18	65	15.2	5	29	51.7	0.085
1C6149A	19	65	15.2	5	27.7	54.2	0.085
1C6150	19.8	50	16.7	5	31.9	47	0.085
1C6150A	20.9	50	16.7	5	30.5	49.2	0.085
1C6151	21.6	50	18.2	5	34.8	43.1	0.09
1C6151A	22.8	50	18.2	5	33.3	45	0.09
1C6152	24.3	50	20.6	5	39.2	38.3	0.09
1C6152A	25.7	50	20.6	5	37.4	40.1	0.09
1C6153	27	40	22.8	5	43.6	34.4	0.09
1C6153A	28.5	40	22.8	5	41.6	36	0.09
1C6154	29.7	40	25.1	5	47.9	31.3	0.095
1C6154A	31.4	40	25.1	5	45.7	32.8	0.095
1C6155	32.4	30	27.4	5	52.3	28.7	0.095
1C6155A	34.2	30	27.4	5	49.9	30.1	0.095

TVS Die

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Part Number	Breakdown Voltage $V_{BR} @ I_{BR}$	Test Current I_{BR}	Working Peak Reverse Voltage V_{RWM}	Max Reverse Current $I_{R1} @ V_{RWM}$	Max Clamping Voltage $V_c(max) @ I_p$ $t_p=1ms$	Max Peak Pulse Current I_p	Max Temp Coeff of V_{BR} αV_{BR}
125 mils, 1500W	Min V_{dc}	m A_{dc}	V_{dc}	μA_{dc}	V_{pk}	A_{pk}	%/°C
1C6156	35.1	30	29.7	5	56.2	26.7	0.095
1C6156A	37.1	30	29.7	5	53.6	28	0.095
1C6157	38.7	30	32.7	5	62	24.2	0.095
1C6157A	40.9	30	32.7	5	59.1	25.4	0.095
1C6158	42.3	25	35.8	5	67.7	22.2	0.095
1C6158A	44.7	25	35.8	5	64.6	23.2	0.095
1C6159	45.9	25	38.8	5	73.5	20.4	0.095
1C6159A	48.5	25	38.8	5	70.1	21.4	0.095
1C6160	50.4	20	42.6	5	80.7	18.6	0.095
1C6160A	53.2	20	42.6	5	77	19.5	0.095
1C6161	55.8	20	47.1	5	89.3	16.8	0.1
1C6161A	58.9	20	47.1	5	85.3	17.6	0.1
1C6162	61.2	20	51.7	5	98	15.3	0.1
1C6162A	64.6	20	51.7	5	97.1	15.4	0.1
1C6163	67.5	20	56	5	108.1	13.9	0.1
1C6163A	71.3	20	56	5	103.1	14.5	0.1
1C6164	73.8	15	62.2	5	118.2	12.7	0.1
1C6164A	77.9	15	62.2	5	112.8	13.3	0.1
1C6165	81.9	15	69.2	5	131.1	11.4	0.1
1C6165A	86.5	15	69.2	5	125.1	12	0.1
1C6166	90	12	76	5	144.1	10.4	0.1
1C6166A	95	12	76	5	137.6	10.9	0.1
1C6167	99	12	83.6	5	158.5	9.5	0.1
1C6167A	104.5	12	83.6	5	151.3	9.9	0.1
1C6168	108	10	91.2	5	172.9	8.7	0.1
1C6168A	114	10	91.2	5	165.1	9.1	0.1
1C6169	117	10	98.8	5	187.3	8	0.105
1C6169A	123.5	10	98.8	5	178.8	8.4	0.105
1C6170	135	8	114	5	216.2	6.9	0.105
1C6170A	142.5	8	114	5	206.3	7.3	0.105
1C6171	144	8	121.6	5	228.8	6.6	0.105
1C6171A	152	8	121.6	5	218.4	6.9	0.105
1C6172	162	5	136.8	5	257.4	5.8	0.11
1C6172A	171	5	136.8	5	245.7	6.1	0.11
1C6173	180	5	152	5	286	5.2	0.11
1C6173A	190	5	152	5	273	5.5	0.11
1C6471	13.6	10	12	1000	22.6	66	0.05
1C6472	16.4	10	15	1000	26.5	57	0.06
1C6473	27	5	24	100	41.4	36.5	0.084
1C6474	33	1	30	5	47.5	32	0.093
1C6475	43.7	1	40	5	63.5	24	0.094
1C6476	54	1	52	5	78.5	19	0.096
1C6471	13.6	10	12	1000	22.6	66	0.05
1C6472	16.4	10	15	1000	26.5	57	0.06
1C6473	27	5	24	100	41.4	36.5	0.084
1C6474	33	1	30	5	47.5	32	0.093
1C6475	43.7	1	40	5	63.5	24	0.094



Zener Die

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Part Number	Power	Mils	V _z ⁽¹⁾ Nom @ I _z	I _z Test Current T _A =+25°C	Z _z Imp	Z _k Knee Imp @ I _{zk}	I _z Max DC Current T _A =25°C	V _z Voltage Reg	I _{ZSM} T _A =25°C	V _r Reverse Voltage	I _r Reverse Current @ V _r	V _z Temp Coef	I _{zk} Test Current
	W	Sq	V	mA	Ω	Ω	mA	V	A	V	uA	%/°C	mA
1C4957	5	90	9	150	2	400	520	0.7	22	6.9	25	.06	1.0
1C4958	5	90	10	125	2	125	475	0.8	20	7.6	25	.07	1.0
1C4959	5	90	11	125	2.5	130	430	0.8	19	8.4	10	.07	1.0
1C4960	5	90	12	100	2.5	140	395	0.8	18	9.1	10	.07	1.0
1C4961	5	90	13	100	3	145	365	0.9	16	9.9	10	.08	1.0
1C4962	5	90	15	75	3.5	150	315	1	12	11.4	5	.08	1.0
1C4963	5	90	16	75	3.5	155	294	1	10	12.2	5	.08	1.0
1C4964	5	90	18	65	4	160	264	1	9	13.7	5	.085	1.0
1C4965	5	90	20	65	4.5	165	237	2	8	15.2	2	.085	1.0
1C4966	5	90	22	50	5	170	216	2	7	19.7	2	.085	1.0
1C4967	5	90	24	50	5	175	198	2	6.5	18.2	2	0.090	1.0
1C4968	5	90	27	50	6	180	176	2	6.0	20.6	2	0.090	1.0
1C4969	5	90	30	40	8	190	158	2.5	5.5	22.8	2	0.090	1.0
1C4970	5	90	33	40	10	200	144	2.8	5.0	25.1	2	0.095	1.0
1C4971	5	90	36	30	11	220	132	3	4.5	27.4	2	0.095	1.0
1C4972	5	90	39	30	14	230	122	3	4.0	29.7	2	0.095	1.0
1C4973	5	90	43	30	20	240	110	3.3	3.5	32.7	2	0.095	1.0
1C4974	5	90	47	25	25	250	100	3.5	3.2	35.8	2	0.095	1.0
1C4975	5	90	51	25	27	270	92	4	3.0	38.8	2	0.095	1.0
1C4976	5	90	56	20	35	320	84	4.4	2.8	42.6	2	0.095	1.0
1C4977	5	90	62	20	42	400	76	5	2.5	47.1	2	0.100	1.0
1C4978	5	90	68	20	50	500	70	5.5	2.2	51.7	2	0.100	1.0
1C4979	5	90	75	20	55	620	63	6	2.0	56	2	0.100	1.0
1C4980	5	90	82	15	80	720	58	6.6	1.8	62.2	2	0.100	1.0
1C4981	5	90	91	15	90	760	52	7.5	1.6	69.2	2	0.100	1.0
1C4982	5	90	100	12	110	800	48	8	1.4	76	2	0.100	1.0
1C4983	5	90	110	12	125	1000	43	9	1.2	83.6	2	0.100	1.0
1C4984	5	90	120	10	170	1150	40	10	1.0	91.2	2	0.100	1.0
1C4985	5	90	130	10	190	1250	37	11	.8	98.8	2	0.105	1.0
1C4986	5	90	150	8	330	1500	32	13	.75	114	2	0.105	1.0
1C4987	5	90	160	8	350	1650	29	14	.70	121.6	2	0.105	1.0
1C4988	5	90	180	5	450	1750	26	16	.60	136.8	2	0.110	1.0
1C4989	5	90	200	5	500	1850	24	18	.50	152	2	0.110	1.0
1C4990	5	90	220	5	550	2000	22	19	.5	167	2	.115	1.0
1C4991	5	90	240	5	650	2050	20	22	.4	182	2	.115	1.0
1C4992	5	90	270	4	800	2100	18	25	.35	206	2	.12	1.0
1C4993	5	90	300	4	950	2150	16	28	.3	228	2	.12	1.0
1C4994	5	90	330	4	1175	2200	14	32	.25	251	2	.12	1.0
1C4995	5	90	360	3	1800	2500	13	35	.22	274	2	.12	1.0
1C4996	5	90	390	3	1800	2500	12	40	.2	297	2	.12	1.0

(1) Tolerance is ±5%

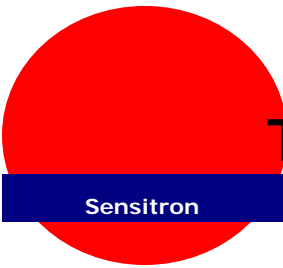
Zener Die

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Part Number	Power	Mils	V _z ⁽¹⁾ Nom @ I _z	I _z Test Current T _A =+25°C	Z _z Imp	Z _k Knee Imp @ I _{zk}	I _z Max DC Current T _A =25°C	V _z Voltage Reg	I _{ZSM} T _A =25°C	V _r Reverse Voltage	I _r Reverse Current @ V _r	V _z Temp Coef	I _{zk} Test Current
	W	Sq	V	mA	Ω	Ω	mA	V	A	V	uA	%/°C	mA
1C6323	0.5	25	9	20	6	500	47	0.5	0.97	7	1	.076	0.25
1C6324	0.5	25	10	20	6	500	43	0.5	0.89	8	1	.079	0.25
1C6325	0.5	25	11	20	7	550	39	0.5	0.83	8.5	1	0.082	0.25
1C6326	0.5	25	12	20	7	550	35	0.55	0.77	9	1	.083	0.25
1C6327	0.5	25	13	9.5	8	550	33	0.55	0.71	9.9	0.05	.079	0.25
1C6328	0.5	25	15	8.5	10	600	28	0.7	0.62	11	0.05	0.082	0.25
1C6329	0.5	25	16	7.8	12	600	27	0.75	0.58	12	0.05	.083	0.25
1C6330	0.5	25	18	7	14	600	24	0.85	0.52	14	0.05	0.085	0.25
1C4464	1.5	37	9	28	4	500	157	0.45	1.6	5.46	0.3	0.068	0.25
1C4465	1.5	37	10	25	5	500	143	0.5	1.4	8	0.3	0.071	0.25
1C4466	1.5	37	11	23	6	550	130	0.55	1.3	8.8	0.3	0.073	0.25
1C4467	1.5	37	12	21	7	550	119	0.6	1.2	9.6	0.2	0.076	0.25
1C4468	1.5	37	13	19	8	550	110	0.65	1.1	10.4	0.05	0.079	0.25
1C4469	1.5	37	15	17	9	600	95	0.75	0.95	12	0.05	0.082	0.25
1C4470	1.5	37	16	16	10	600	90	0.8	0.9	12.8	0.05	0.083	0.25
1C4471	1.5	37	18	14	11	650	79	0.83	0.79	14.4	0.05	0.085	0.25
1C4472	1.5	37	20	12	12	650	71	0.95	0.71	16	0.05	0.086	0.25
1C4473	1.5	37	22	12	14	650	65	1	0.65	17.6	0.05	0.087	0.25
1C4474	1.5	37	24	10	16	700	60	1.1	0.6	19.2	0.05	0.088	0.25
1C4475	1.5	37	27	10	18	700	53	1.3	0.53	21.6	0.05	0.09	0.25
1C4476	1.5	37	30	8	20	750	48	1.4	0.48	24	0.05	0.091	0.25
1C4477	1.5	37	33	8	25	800	43	1.5	0.43	26.4	0.05	0.092	0.25
1C4478	1.5	37	36	7	27	850	40	1.7	0.4	28.8	0.05	0.093	0.25
1C4479	1.5	37	39	6	30	900	37	1.8	0.37	31.2	0.05	0.094	0.25
1C4480	1.5	37	43	6	40	950	33	1.9	0.33	34.4	0.05	0.095	0.25
1C4481	1.5	37	47	6	50	1000	30	2.1	0.3	37.6	0.05	0.095	0.25
1C4482	1.5	37	51	5	60	1100	28	2.3	0.28	40.8	0.05	0.096	0.25
1C4483	1.5	37	56	4	70	1300	26	2.5	0.26	44.8	0.25	0.096	0.25
1C4484	1.5	37	62	4	80	1500	23	2.7	0.23	49.6	0.25	0.097	0.25
1C4485	1.5	37	68	4	100	1700	21	3	0.21	54.4	0.25	0.097	0.25
1C4486	1.5	37	75	3	130	2000	19	3.3	0.19	60	0.25	0.098	0.25
1C4487	1.5	37	82	3	160	2500	17	3.6	0.17	65.6	0.25	0.098	0.25
1C4488	1.5	37	91	3	200	3000	16	4	0.16	72.8	0.25	0.099	0.25
1C4489	1.5	37	100	2	250	3100	14	4.4	0.14	80	0.25	0.1	0.25
1C4490	1.5	37	110	2	300	4000	13	5	0.13	88	0.25	0.1	0.25
1C4491	1.5	37	120	2	400	4500	12	5.5	0.12	96	0.25	0.1	0.25
1C4492	1.5	37	130	2	500	5000	11	6	0.11	104	0.25	0.1	0.25
1C4493	1.5	37	150	2	700	6000	10	7	0.095	120	0.25	0.1	0.25
1C4494	1.5	37	160	2	1000	6500	9	8	0.089	128	0.25	0.1	0.25
1C4495	1.5	37	180	1	1300	7000	8	10	0.079	144	0.25	0.1	0.25
1C4496	1.5	37	200	1	1500	8000	7	12	0.072	160	0.25	0.1	0.25

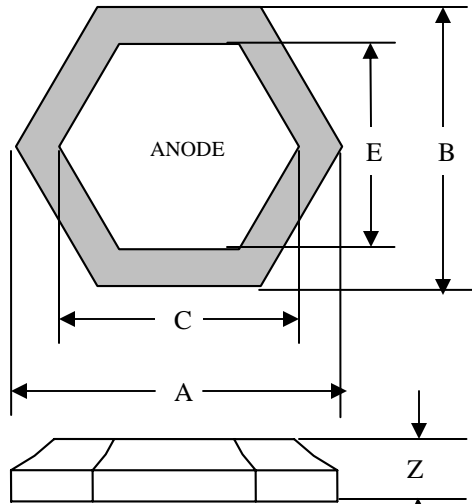
(1) Tolerance is ±5%



TVS & Zener Die Maps

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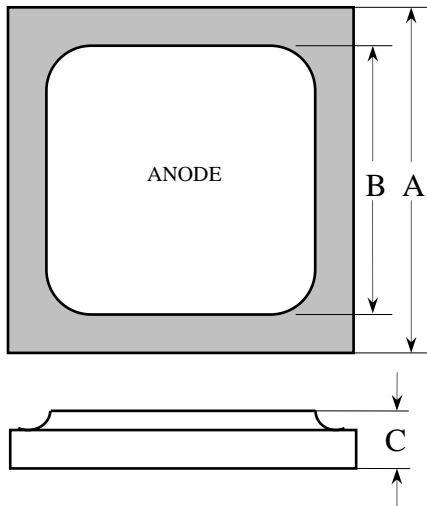


**500W and 1500W TVS
and
5W Zener**

Mechanical Dimensions: inches (mm)

**Standard Metallization: Top Side: Al, 25 kÅ minimum
Bottom Side: Ti/Ni/Ag, 30 kÅ minimum**

Die Type	Die Diameter A	Die Flat to Flat B	Metal Diameter C	Metal Flat to Flat E	Die Thickness Z
500W TVS and 5W Zener	0.090 ± 0.003 (2.286 ± 0.076)	0.079 ± 0.003 (2.006 ± 0.076)	0.072 ± 0.003 (1.829 ± 0.076)	0.062 ± 0.003 (1.575 ± 0.076)	0.010 ± 0.001 (0.254 ± 0.025)
1500W TVS	0.125 ± 0.003 (3.175 ± 0.076)	0.107 ± 0.003 (2.718 ± 0.076)	0.100 ± 0.003 (2.540 ± 0.076)	0.087 ± 0.003 (2.210 ± 0.076)	0.010 ± 0.001 (0.254 ± 0.025)



**0.5W and 1.5W
Zener**

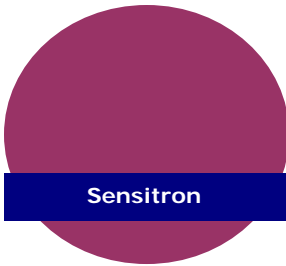
Mechanical Dimensions: inches (mm)

**Standard Metallization: Top Side: Al, 25 kÅ minimum
Bottom Side: Ti/Ni/Ag, 30 kÅ minimum**

Die Type	Die Area (mil ²)	Dimension ⁽¹⁾ A	Dimension ⁽¹⁾ B	Dimension ⁽²⁾ C
Zener Die, 0.5W	25 x 25	0.025 (0.635)	0.013 (0.330)	0.010 (0.254)
Zener Die, 1.5W	37 x 37	0.037 (0.940)	0.020 (0.508)	0.010 (0.254)

⁽¹⁾ Tolerance is ± 0.003" (0.076 mm)

⁽²⁾ Tolerance is ± 0.001" (0.025 mm)

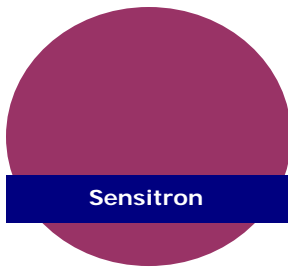


Sensitron Die Products

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1C3611	General Purpose	1C4494	Zener	1C4996	Zener
1C3612	General Purpose	1C4495	Zener	1C5186	Fast Recovery
1C3613	General Purpose	1C4496	Zener	1C5187	Fast Recovery
1C3614	General Purpose	1C4942	Fast Recovery	1C5188	Fast Recovery
1C4001	General Purpose	1C4944	Fast Recovery	1C5190	Fast Recovery
1C4002	General Purpose	1C4946	Fast Recovery	1C5415	Fast Recovery
1C4003	General Purpose	1C4947	Fast Recovery	1C5416	Fast Recovery
1C4004	General Purpose	1C4957	Zener	1C5417	Fast Recovery
1C4005	General Purpose	1C4958	Zener	1C5418	Fast Recovery
1C4006	General Purpose	1C4959	Zener	1C5419	Fast Recovery
1C4148	Small Signal Switching	1C4960	Zener	1C5420	Fast Recovery
1C4150	Small Signal Switching	1C4961	Zener	1C5550	General Purpose
1C4245	General Purpose	1C4962	Zener	1C5551	General Purpose
1C4246	General Purpose	1C4963	Zener	1C5552	General Purpose
1C4247	General Purpose	1C4964	Zener	1C5553	General Purpose
1C4248	General Purpose	1C4965	Zener	1C5614	General Purpose
1C4464	Zener	1C4966	Zener	1C5615	Fast Recovery
1C4465	Zener	1C4967	Zener	1C5616	General Purpose
1C4466	Zener	1C4968	Zener	1C5617	Fast Recovery
1C4467	Zener	1C4969	Zener	1C5618	General Purpose
1C4468	Zener	1C4970	Zener	1C5619	Fast Recovery
1C4469	Zener	1C4971	Zener	1C5620	General Purpose
1C4470	Zener	1C4972	Zener	1C5621	Fast Recovery
1C4471	Zener	1C4973	Zener	1C5711	Small Signal Switching
1C4472	Zener	1C4974	Zener	1C5806	Ultra Fast Recovery
1C4473	Zener	1C4975	Zener	1C5807	Ultra Fast Recovery
1C4474	Zener	1C4976	Zener	1C5809	Ultra Fast Recovery
1C4475	Zener	1C4977	Zener	1C5811	Ultra Fast Recovery
1C4476	Zener	1C4978	Zener	1C6105	TVS
1C4477	Zener	1C4979	Zener	1C6105A	TVS
1C4478	Zener	1C4980	Zener	1C6106	TVS
1C4479	Zener	1C4981	Zener	1C6106A	TVS
1C4480	Zener	1C4982	Zener	1C6107	TVS
1C4481	Zener	1C4983	Zener	1C6107A	TVS
1C4482	Zener	1C4984	Zener	1C6108	TVS
1C4483	Zener	1C4985	Zener	1C6108A	TVS
1C4484	Zener	1C4986	Zener	1C6109	TVS
1C4485	Zener	1C4987	Zener	1C6109A	TVS
1C4486	Zener	1C4988	Zener	1C6110	TVS
1C4487	Zener	1C4989	Zener	1C6110A	TVS
1C4488	Zener	1C4990	Zener	1C6111	TVS
1C4489	Zener	1C4991	Zener	1C6111A	TVS
1C4490	Zener	1C4992	Zener	1C6112	TVS
1C4491	Zener	1C4993	Zener	1C6112A	TVS
1C4492	Zener	1C4994	Zener	1C6113	TVS
1C4493	Zener	1C4995	Zener	1C6113A	TVS



Sensitron Die Products

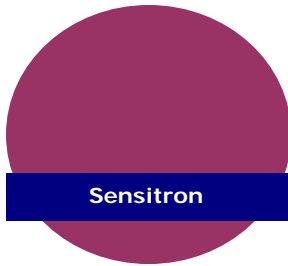
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1C6114	TVS	1C6137	TVS	1C6164	TVS	1C6283	TVS	1C6327	Zener
1C6114A	TVS	1C6137A	TVS	1C6164A	TVS	1C6283A	TVS	1C6328	Zener
1C6115	TVS	1C6142	TVS	1C6165	TVS	1C6284	TVS	1C6329	Zener
1C6115A	TVS	1C6142A	TVS	1C6165A	TVS	1C6284A	TVS	1C6330	Zener
1C6116	TVS	1C6143	TVS	1C6166	TVS	1C6285	TVS	1C6463	TVS
1C6116A	TVS	1C6143A	TVS	1C6166A	TVS	1C6285A	TVS	1C6464	TVS
1C6117	TVS	1C6144	TVS	1C6167	TVS	1C6286	TVS	1C6465	TVS
1C6117A	TVS	1C6144A	TVS	1C6167A	TVS	1C6286A	TVS	1C6466	TVS
1C6118	TVS	1C6145	TVS	1C6168	TVS	1C6287	TVS	1C6467	TVS
1C6118A	TVS	1C6145A	TVS	1C6168A	TVS	1C6287A	TVS	1C6468	TVS
1C6119	TVS	1C6146	TVS	1C6169	TVS	1C6288	TVS	1C6471	TVS
1C6119A	TVS	1C6146A	TVS	1C6169A	TVS	1C6288A	TVS	1C6472	TVS
1C6120	TVS	1C6147	TVS	1C6170	TVS	1C6289	TVS	1C6473	TVS
1C6120A	TVS	1C6147A	TVS	1C6170A	TVS	1C6289A	TVS	1C6474	TVS
1C6121	TVS	1C6148	TVS	1C6171	TVS	1C6290	TVS	1C6475	TVS
1C6121A	TVS	1C6148A	TVS	1C6171A	TVS	1C6290A	TVS	1C6476	TVS
1C6122	TVS	1C6149	TVS	1C6172	TVS	1C6291	TVS	1C6620	Ultra Fast Recovery
1C6122A	TVS	1C6149A	TVS	1C6172A	TVS	1C6291A	TVS	1C6621	Ultra Fast Recovery
1C6123	TVS	1C6150	TVS	1C6173	TVS	1C6292	TVS	1C6622	Ultra Fast Recovery
1C6123A	TVS	1C6150A	TVS	1C6173A	TVS	1C6292A	TVS	1C6623	Ultra Fast Recovery
1C6124	TVS	1C6151	TVS	1C6270	TVS	1C6293	TVS	1C6624	Ultra Fast Recovery
1C6124A	TVS	1C6151A	TVS	1C6270A	TVS	1C6293A	TVS	1C6626	Ultra Fast Recovery
1C6125	TVS	1C6152	TVS	1C6271	TVS	1C6294	TVS	1C6627	Ultra Fast Recovery
1C6125A	TVS	1C6152A	TVS	1C6271A	TVS	1C6294A	TVS	1C6628	Ultra Fast Recovery
1C6126	TVS	1C6153	TVS	1C6272	TVS	1C6295	TVS	1C6629	Ultra Fast Recovery
1C6126A	TVS	1C6153A	TVS	1C6272A	TVS	1C6295A	TVS	1C6630	Ultra Fast Recovery
1C6127	TVS	1C6154	TVS	1C6273	TVS	1C6296	TVS	1C6638	Small Signal Switching
1C6127A	TVS	1C6154A	TVS	1C6273A	TVS	1C6296A	TVS	1C6640	Small Signal Switching
1C6128	TVS	1C6155	TVS	1C6274	TVS	1C6297	TVS	1C6641	Small Signal Switching
1C6128A	TVS	1C6155A	TVS	1C6274A	TVS	1C6297A	TVS	1C6642	Small Signal Switching
1C6129	TVS	1C6156	TVS	1C6275	TVS	1C6298	TVS	1C6643	Small Signal Switching
1C6129A	TVS	1C6156A	TVS	1C6275A	TVS	1C6298A	TVS	1C6657	Ultra Fast Recovery
1C6130	TVS	1C6157	TVS	1C6276	TVS	1C6299	TVS	1C6658	Ultra Fast Recovery
1C6130A	TVS	1C6157A	TVS	1C6276A	TVS	1C6299A	TVS	1C6659	Ultra Fast Recovery
1C6131	TVS	1C6158	TVS	1C6277	TVS	1C6300	TVS	MURC1020	Ultra Fast Recovery
1C6131A	TVS	1C6158A	TVS	1C6277A	TVS	1C6300A	TVS	MURC1060	Ultra Fast Recovery
1C6132	TVS	1C6159	TVS	1C6278	TVS	1C6301	TVS	MURC115	Ultra Fast Recovery
1C6132A	TVS	1C6159A	TVS	1C6278A	TVS	1C6301A	TVS	MURC120	Ultra Fast Recovery
1C6133	TVS	1C6160	TVS	1C6279	TVS	1C6302	TVS	MURC130	Ultra Fast Recovery
1C6133A	TVS	1C6160A	TVS	1C6279A	TVS	1C6302A	TVS	MURC140	Ultra Fast Recovery
1C6134	TVS	1C6161	TVS	1C6280	TVS	1C6303	TVS	MURC1510	Ultra Fast Recovery
1C6134A	TVS	1C6161A	TVS	1C6280A	TVS	1C6303A	TVS	MURC1515	Ultra Fast Recovery
1C6135	TVS	1C6162	TVS	1C6281	TVS	1C6323	Zener	MURC1520	Ultra Fast Recovery
1C6135A	TVS	1C6162A	TVS	1C6281A	TVS	1C6324	Zener	MURC1540	Ultra Fast Recovery
1C6136	TVS	1C6163	TVS	1C6282	TVS	1C6325	Zener	MURC1560	Ultra Fast Recovery
1C6136A	TVS	1C6163A	TVS	1C6282A	TVS	1C6326	Zener	MURC160	Ultra Fast Recovery

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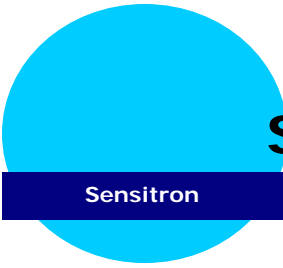


Sensitron Die Products

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MURC210	Ultra Fast Recovery	SD090SA30A/B/C	Schottky	SD165UF800X70	Ultra Fast Recovery
MURC220	Ultra Fast Recovery	SD090SA45A/B/C	Schottky	SD175SA30A/B/C	Schottky
MURC240	Ultra Fast Recovery	SD090SA60A/B/C	Schottky	SD175SA45A/B/C	Schottky
MURC260	Ultra Fast Recovery	SD090SB100A/B/C	Schottky	SD175SA60A/B/C	Schottky
MURC415	Ultra Fast Recovery	SD090SC100A/B/C	Schottky	SD175SC100A/B/C	Schottky
MURC420	Ultra Fast Recovery	SD090SC150A/B/C	Schottky	SD175SC150A/B/C	Schottky
MURC440	Ultra Fast Recovery	SD090SC200A/B/C	Schottky	SD175SC200A/B/C	Schottky
MURC460	Ultra Fast Recovery	SD090SD15A/B/C	Schottky	SD175SD150C	Schottky
MURC520	Ultra Fast Recovery	SD090SE45A/B/C	Schottky	SD175SD15A/B	Schottky
MURC620	Ultra Fast Recovery	SD120UF150X30	Ultra Fast Recovery	SD175SE45A/B/C	Schottky
MURC805	Ultra Fast Recovery	SD120UF200X30	Ultra Fast Recovery	SD200SA30A/B/C	Schottky
MURC810	Ultra Fast Recovery	SD120UF300X35	Ultra Fast Recovery	SD200SA45A/B/C	Schottky
MURC815	Ultra Fast Recovery	SD120UF400X45	Ultra Fast Recovery	SD200SA60A/B/C	Schottky
MURC820	Ultra Fast Recovery	SD120UF500X45	Ultra Fast Recovery	SD200SB100A/B/C	Schottky
MURC840	Ultra Fast Recovery	SD120UF600X60	Ultra Fast Recovery	SD200SC100A/B/C	Schottky
MURC860	Ultra Fast Recovery	SD120UF800X60	Ultra Fast Recovery	SD200SC150A/B/C	Schottky
SD040SA30A/B	Schottky	SD125SA30A/B/C	Schottky	SD200SC200A/B/C	Schottky
SD040SA45A/B	Schottky	SD125SA45A/B/C	Schottky	SD200SD15A/B/C	Schottky
SD040SA60A/B	Schottky	SD125SA60A/B/C	Schottky	SD200SE45A/B/C	Schottky
SD040SB100A/B	Schottky	SD125SB100A/B/C	Schottky	SD200UF150X50	Ultra Fast Recovery
SD040SC100A/B	Schottky	SD125SB45A/B/C	Schottky	SD200UF200X50	Ultra Fast Recovery
SD040SC200A/B	Schottky	SD125SC100A/B/C	Schottky	SD200UF300X60	Ultra Fast Recovery
SD040SD15A/B	Schottky	SD125SC150A/B/C	Schottky	SD200UF400X60	Ultra Fast Recovery
SD040SE45A/B	Schottky	SD125SC200A/B/C	Schottky	SD200UF500X60	Ultra Fast Recovery
SD060SA30A/B	Schottky	SD125SD15A/B/C	Schottky	SD200UF600X75	Ultra Fast Recovery
SD060SA45A/B	Schottky	SD125SE30A/B/C	Schottky	SD200UF800X75	Ultra Fast Recovery
SD060SA60A/B	Schottky	SD125SE45A/B/C	Schottky	SD215UF150X50	Ultra Fast Recovery
SD060SB100A/B	Schottky	SD140UF150X35	Ultra Fast Recovery	SD215UF200X50	Ultra Fast Recovery
SD060SC100A/B	Schottky	SD140UF200X35	Ultra Fast Recovery	SD215UF300X60	Ultra Fast Recovery
SD060SC150A/B	Schottky	SD140UF300X35	Ultra Fast Recovery	SD215UF400X60	Ultra Fast Recovery
SD060SC200A/B	Schottky	SD140UF400X50	Ultra Fast Recovery	SD215UF500X60	Ultra Fast Recovery
SD060SD15A/B	Schottky	SD140UF500X50	Ultra Fast Recovery	SD215UF600X75	Ultra Fast Recovery
SD060SE45A/B	Schottky	SD140UF600X70	Ultra Fast Recovery	SD215UF800X75	Ultra Fast Recovery
SD085UF150X25	Ultra Fast Recovery	SD140UF800X70	Ultra Fast Recovery	SD275SA30A/B/C	Schottky
SD085UF200X25	Ultra Fast Recovery	SD165UF150X35	Ultra Fast Recovery	SD275SA45A/B/C	Schottky
SD085UF300X40	Ultra Fast Recovery	SD165UF200X35	Ultra Fast Recovery	SD275SB45A/B/C	Schottky
SD085UF400X50	Ultra Fast Recovery	SD165UF300X50	Ultra Fast Recovery	SD275SC100A/B/C	Schottky
SD085UF500X50	Ultra Fast Recovery	SD165UF400X50	Ultra Fast Recovery	SD275SC150A/B/C	Schottky
SD085UF600X50	Ultra Fast Recovery	SD165UF500X50	Ultra Fast Recovery	SD275SE30A/B/C	Schottky
SD085UF800X60	Ultra Fast Recovery	SD165UF600X70	Ultra Fast Recovery		



Silicon Chip Part Number Definition

Sensitron

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Silicon Chip Part Number Definition for Front Metal, Back Metal and Polarity

1CXXXX-AG-R

XXXX is the 4 digit part number

AG is metal configuration with Al top, and gold bottom

-R is reversed polarity, top cathode

Normal polarity is without **-R**, top anode

Default part number is Al top, silver bottom and normal polarity, ie. 1C5418

Possible metal combinations

Default is Al top, silver bottom, **no suffix letter**

AG, Al top, gold bottom

BB, silver top, silver bottom

BG, silver top, gold bottom

GG, gold top, gold bottom

GB, gold top, silver bottom

A = Ti (0.3 kA) / Al (25 kA)

B = Ti (1.2 kA) / Ni (1.8 kA) / Ag (30 kA)

G = Ti (1.2 kA) / Ni (1.8 kA) / Au (12 kA)

Possible polarity

Default is normal polarity, with anode on the top, **no suffix letter**

-R reversed polarity, with cathode on the top

Example of Schottky die

SD125SB45A, Al top, silver bottom

If it is another configuration, we need to use two letters, for example:

SD125SB45AG, Al top, gold back die

Example of UF die

SD120UF200A35, Al top, silver bottom

Other metals should have two letters, for example:

SD120UF200AG35, Al top, gold back configuration

Sensitron can perform Lot Acceptance Testing to the process flow following these quality levels:

- MIL-PRF-38534, Class H and Class K
- MIL-PRF-19500, Class H and Class K

Sensitron's Die products cross to many industry standard parts! Please visit us online at:
http://www.sensitron.com/die_cross.htm

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FEATURED PRODUCT



DC BRUSHLESS 3-PHASE DSP MOTOR CONTROL

Sensitron's Sensorless DC Brushless 3-Phase DSP Motor Controller is a complete motor control system. Sensitron's DSP controllers are rated at 600V, 70A suitable for motors up to 6KW operating off the 270V dc bus [more...](#)

IN THE NEWS

July 2007- Sensitron now offers **extended range** Solid State Power Controller Modules (SPDPXXD28ER Series) which are designed to operate without any heatsink requirements. [more...](#)

June 2007- Sensitron's Brushless 3-Phase DSP Motor Controller is a complete motor control system. Rated at 600V, 70A suitable for motors up to 6KW operating off the 270V [more...](#)
[2006 News Archive](#)

PARAMETRIC TREE

Schottky Rectifiers (ALL)

MARKETS / SOLUTIONS



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- Silicon Carbide Rectifiers
- High Voltage/Bridges/Diode Assemblies
- Oil Cooled /Rotating Rectifier

PROTECTION/ISOLATION

- TVS
- Zeners

SWITCHING/ CONTROL

- Discrete IGBTs/IGBT Modules
- MOSFETs/MOSFET Modules
- New!** Rad Tolerant MOSFETs Amplifiers
- New!** Rad Tolerant Voltage Regulators
- Voltage Regulators

DIE PRODUCTS

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