

SENSITRON

SEMICONDUCTOR

Schottky Die

Sensitron's Schottky Die Products have been used in space, military and high-rel applications for more than 30 years. Our die has a high surge capacity, a guard ring for enhanced durability and long term reliability. Our preferred parts list contains many non-standard voltages from 15 volt to 200 volt die. All die are 100% electrically tested and screened IAW MIL-PRF-19500 as is element evaluation performed on every lot. Commercially screened die also available.

Celebrating over 30 years

*of supplying semiconductors
and microelectronic products
to the hi-rel market!*

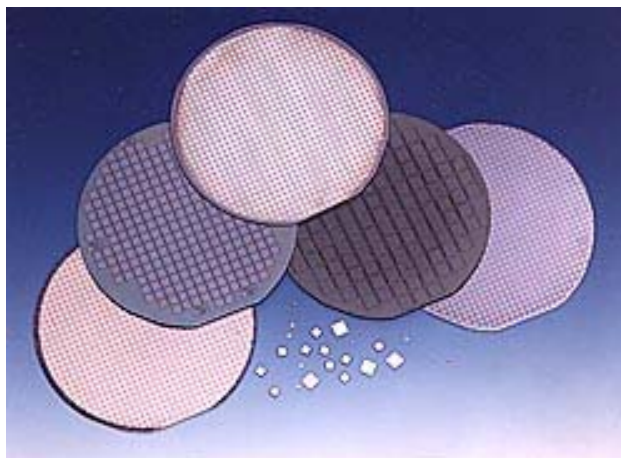
Applications / Markets:

- ▽ Implantables
- ▽ Hybrids
- ▽ Switching Power Supply
- ▽ Converters
- ▽ Free-Wheeling Diodes
- ▽ Polarity Protection Diode

Features / Benefits:

- ▽ Wafer, Chip, Chip with Moly
- ▽ Guaranteed reverse avalanche characteristics.
- ▽ Ultra low Leakage Current Available from 100V
- ▽ Junction Temperatures up to 200°C
- ▽ Three top side finish options - Al, Ag, Moly Tab
- ▽ Extremely Low Forward Voltage Drop

- ISO-9001:2000 Registered
- MIL-PRF-38534 Qualified
- MIL-PRF-19500 Certified



Preferred parts list on reverse side

Part number designation example, **SD175SA45A**

SD = Sensitron die

175 = Die size in mils

SA=150°C Process, **SB**=175°C, **SC**=200°C, **SCU**=200°C Ultra-Low Leakage, **SD**=100°C, **SE**=125°C

45 = Voltage Rating

A=Aluminum Top/Silver Bottom, **B**=Silver Top/Silver Bottom, **C**=Silver Bottom/Molybdenum Tab Top

Note: 275 mils square die also available

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REV 137-1004

SCHOTTKY DIE PREFERRED PRODUCTS LIST

Type Number	VRM (Volts)	Die Size (mil)	IO Max (Amps)	IFSM (Amps)	VF (Volts) 25 deg C	VF (Volts) 125 deg C	IR (mA) 25 deg C	IR (mA) 125 deg C	CT (pF)	TJ deg C
SD040SD15A/B	15	40	1	20	0.37	0.33	0.5	25	80	100
SD060SD15A/B	15	60	3	55	0.37	0.33	1.5	70	240	100
SD090SD15A/B/C	15	90	7.5	140	0.37	0.33	3.5	170	600	100
SD125SD15A/B/C	15	125	15	280	0.37	0.33	7	340	1200	100
SD175SD15A/B/C	15	175	30	570	0.37	0.33	14	680	2400	100
SD200SD15A/B/C	15	200	60	860	0.41	0.37	20	1000	3600	100
SD040SA30A/B	30	40	1	20	0.49	0.39	0.12	6	90	150
SD060SA30A/B	30	60	3	55	0.49	0.39	0.4	20	220	150
SD090SA30A/B/C	30	90	7.5	140	0.49	0.39	1	50	550	150
SD125SA30A/B/C	30	125	15	280	0.49	0.39	2	100	1100	150
SD175SA30A/B/C	30	175	30	570	0.49	0.39	4	200	2200	150
SD200SA30A/B/C	30	200	60	860	0.53	0.43	6	300	3300	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
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
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
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
SD175SA45A/B/C	45	175	30	570	0.56	0.51	3	140	1600	150
SD175SE45A/B/C	45	175	30	570	0.51	0.47	3.5	500	1700	125
SD200SA45A/B/C	45	200	60	860	0.6	0.57	4.5	210	2400	150
SD200SE45A/B/C	45	200	60	860	0.54	0.5	5	800	2600	125
SD040SA60A/B	60	40	1	20	0.56	0.51	0.1	9	53	150
SD060SA60A/B	60	60	3	55	0.56	0.51	0.4	28	160	150
SD090SA60A/B/C	60	90	7.5	140	0.56	0.51	1	70	400	150
SD125SA60A/B/C	60	125	15	280	0.56	0.51	2	140	800	150
SD175SA60A/B/C	60	175	30	570	0.56	0.51	4	280	1600	150
SD200SA60A/B/C	60	200	60	860	0.56	0.57	6	420	2400	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
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
SD090SB100A/B/C	100	80	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
SD125SB100A/B/C	100	125	16	240	0.85	0.69	10	1	500	175
SD125SC100A/B/C	100	125	15	280	0.84	0.68	0.35	8	500	200
SD175SB100A/B/C	100	175	30	570	0.84	0.68	0.75	15	1000	175
SD175SC100A/B/C	100	175	30	570	0.84	0.68	0.75	15	1000	200
SD200SB100A/B/C	100	200	60	720	0.87	0.72	30	3	1500	175
SD200SC100A/B/C	100	200	60	860	0.87	0.72	1	24	1500	200
SD040SC150A/B	150	40	1	20	0.84	0.68	0.035	0.6	35	200
SD060SC150A/B	150	60	3	55	0.84	0.68	0.07	1.6	100	200
SD090SC150A/B/C	150	80	7.5	140	0.84	0.68	0.25	4	250	200
SD125SC150A/B/C	150	125	15	280	0.84	0.68	500	8	500	200
SD175SC150A/B/B	150	175	30	570	0.89	0.74	1	16	1000	200
SD200SC150A/B/C	150	200	60	860	0.87	0.72	1.5	24	1500	200
SD040SC200A/B	200	40	1	20	0.92	0.76	0.03	0.6	20	200
SD060SC200A/B	200	60	3	55	0.92	0.76	0.07	1.6	60	200
SD090SC200A/B/C	200	90	7.5	140	0.92	0.76	0.18	4	150	200
SD125SC200A/B/C	200	125	15	280	0.92	0.76	0.35	8	300	200
SD175SC200A/B/C	200	175	30	570	0.92	0.76	0.7	16	600	200
SD200SC200A/B/C	200	200	60	860	0.95	0.79	1.1	24	900	200