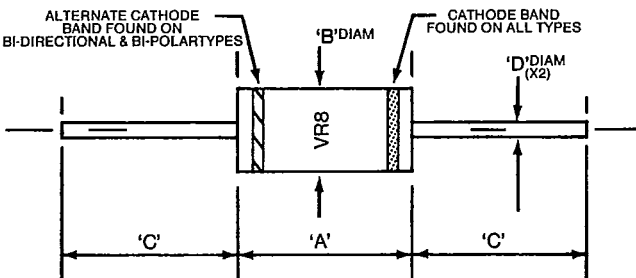


FEATURES:

- Standard basic series covering a wide voltage selection range
- Compact size ideally suited for mounting next to the critical circuitry to be protected
- Transient power surge capacity as high as 1500 watts
- Breakdown voltages held to within a ± 10 percent tolerance
- Custom designs available with short lead times for sample and production orders
(Note: There is a 50,000 unit minimum for production orders on all custom designs)
- Fast response time (Less than 10^{-12} seconds)
- Can be supplied taped and reeled at slight additional cost
- Wide operational and storage temperature ranges of -55°C to 125°C

MECHANICAL DATA/OUTLINE DIMENSIONS

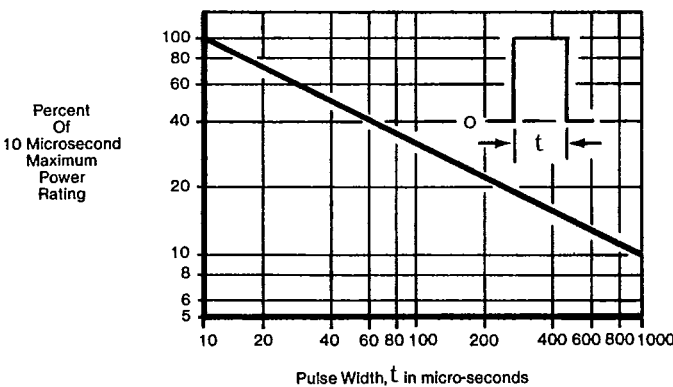


DIMENSION DETAILS

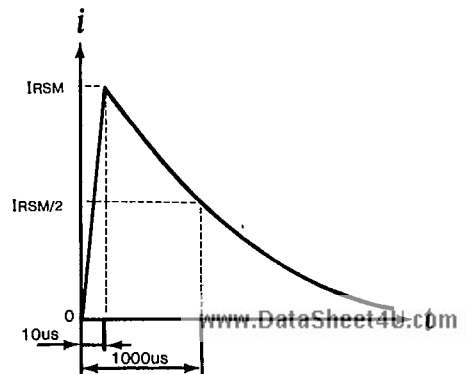
BODY CODE	UNITS	A		B		C		D	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
1	INCHES	—	0.310	—	0.190	0.78	—	0.029	0.033
	MILLI-METERS	—	7.870	—	4.830	19.8	—	0.736	0.840
2	INCHES	—	0.200	—	0.110	0.78	—	0.023	0.027
	MILLI-METERS	—	5.080	—	2.800	19.8	—	0.584	0.686

RATING CURVES

TRANSIENT SURGE DE-RATING SCHEDULE
 (-40 C TO 125 C)

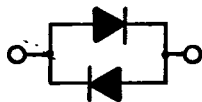


TYPICAL SURGE CURRENT TEST WAVE FORM

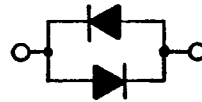


SPECIFICATIONS

Type No.	Breakdown Voltage V_b @ $T_A = 25^\circ C$ & $I_b = 1.0 \text{ MAPK}$ 1/		Stand Off Voltage V_{so} 1/	Typical Clamping Voltage V_{clamp} @ Maximum I_{RSM} 1/	Maximum Transient Surge Current, I_{TSM} for pulse widths 1/ of 2/		Maximum Stand Off Bias Current @ $T_A = 25^\circ C$ & Rated V_{so} 1/	Maximum Transient Power, P_T For Pulse Widths (Sq. Top) of		Typical Junction Capacitance @ Zero Bias & $T_A = 25^\circ C$	Body Code
	Min. VPK	Max. VPK			$\mu\text{Sec APK}$	$\mu\text{Sec APK}$		μadc	10 $\mu\text{Sec Watts}$		



BI-DIRECTIONAL



VR84B	5.4	6.6	1.6	7.0	500	50	50	3500	350	260	1
VR88B	5.4	6.6	3.2	7.0	500	50	50	3500	350	130	1



UNI-POLAR



SC57	6.75	8.25	6	10.5	47	4.7	200	500	50	3000	2
SC510	9.00	11.00	8	14.5	34	3.4	50	500	50	1300	2
SC518	16.20	19.80	14.5	25	20	2.0	10	500	50	600	2
SC527	24.30	29.70	21.5	38	13	1.3	10	500	50	400	2
SC550	45.0	55.0	40	72	7	0.7	10	500	50	160	2
SC5120	108.0	132.0	96	168	3	0.3	10	500	50	70	2



BI-POLAR



SCI.5K220B	209	231	185	330	9.2	0.92	10	3000	300	300	1
SC3.5K240B	240	260	192	320	11.0	0.55	5.0	3500	350	250	1



BI-POLAR WITH BLOCKING DIODE



SCD350	45.0	55.0	36/200 4/	70	10	1.0	10	700	70	300	2
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NOTES:

- 1/ Both directions for bi-directional and bi-polar devices
- 2/ Reference typical surge current test waveform
- 3/ The test current for bi-direction types is 10 milli-amperes
- 4/ The lower voltage is bias condition for bi-polar section; higher voltage is for diode section



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