

Symbol	Parameter	Value	Units W	
P <sub>PPM</sub>	Peak Pulse Power Dissipation on 10/1000 µs waveform	minimum 500		
I <sub>PPM</sub>	Peak Pulse Current on 10/1000 µs waveform	see table	А	
P <sub>M(AV)</sub>	Steady State Power Dissipation .375 " lead length @ $T_A = 75^{\circ}C$	1.0	W	
İ <sub>f(surge)</sub>	Peak Forward Surge Current superimposed on rated load (JEDEC method) (Note 1)	70	А	
T <sub>stg</sub>	Storage Temperature Range	-65 to +175	°C	
TJ	Operating Junction Temperature	-65 to +175	°C	

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Note 1: Measured on 8.3 ms single half-sine wave or equivalent square wave; Duty cycle = 4 pulses per minute maximum.

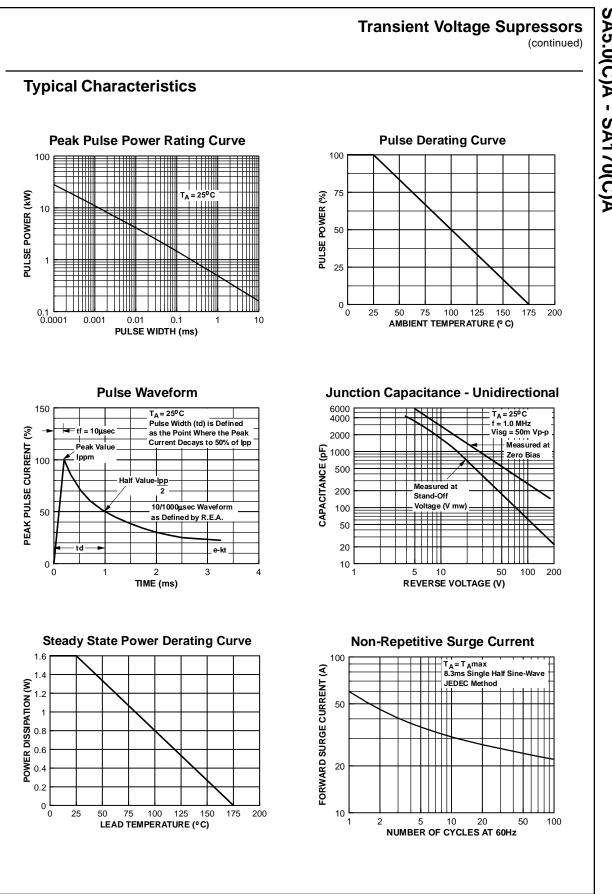
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# Transient Voltage Supressors (continued)

Uni-directional	Reverse	Breakdow	n Voltage	Test	Max Clamping	Max Peak Pulse	Max Reverse
Bi-directional (C) Device	Stand-off Voltage V <sub>RWM</sub> (V)	V <sub>E</sub> min	R(V) max	Current I <sub>T</sub> (mA)	Voltage @IPPM V <sub>C</sub> (V)	Surge Current I <sub>PPM</sub> (A)	$\begin{array}{c} Leakage \ V_{RWM} \\ I_R(uA)^* \end{array}$
SA5.0(C)A	5.0	6.40	7.00	10	9.2	54.3	600
SA6.0(C)A	6.0	6.67	7.37	10	10.3	48.5	600
SA6.5(C)A	6.5	7.22	7.98	10	11.2	44.7	400
SA7.0(C)A	7.0	7.78	8.60	10	12.0	41.7	150
SA7.5(C)A	7.5	8.33	9.21	1.0	12.9	38.8	50
SA8.0(C)A	8.0	8.89	9.83	1.0	13.6	36.7	25
SA8.5(C)A	8.5	9.44	10.4	1.0	14.4	34.7	10
SA9.0(C)A	9.0	10.0	11.1	1.0	15.4	32.5	5
SA10(C)A	10	11.1	12.3	1.0	17.0	29.4	1
SA11(C)A	11	12.2	13.5	1.0	18.2	27.4	1
SA12(C)A	12	13.3	14.7	1.0	19.9	25.1	1
SA13(C)A	13	14.4	15.9	1.0	21.5	23.2	1
SA14(C)A	14	15.6	17.2	1.0	23.2	21.5	1
SA15(C)A	15	16.7	18.5	1.0	24.4	20.6	1
SA16(C)A	16	17.8	19.7	1.0	26.0	19.2	1
SA17(C)A	17	18.9	20.9	1.0	27.6	18.1	1
SA18(C)A	18	20.0	22.1	1.0	29.2	17.2	1
SA20(C)A	20	22.2	24.5	1.0	32.4	15.4	1
SA22(C)A	22	24.4	26.9	1.0	35.5	14.1	1
SA24(C)A	24	26.7	29.5	1.0	38.9	12.8	1
SA26(C)A	26	28.9	31.9	1.0	42.1	11.9	1
SA28(C)A	28	31.1	34.4	1.0	45.4	11.0	1
SA30(C)A	30	33.3	36.8	1.0	48.4	10.3	1
SA33(C)A	33	36.7	40.6	1.0	53.3	9.4	1
SA36(C)A	36	40.0	44.2	1.0	58.1	8.6	1
SA40(C)A	40	44.4	49.1	1.0	64.5	7.8	1
SA43(C)A	43	47.8	52.8	1.0	69.4	7.2	1
SA45(C)A	45	50.0	55.3	1.0	72.7	6.9	1
SA48(C)A	48	53.3	58.9	1.0	77.4	6.5	1
SA51(C)A	51	56.7	62.7	1.0	82.4	6.1	1
SA54(C)A	54	60.0	66.3	1.0	87.1	5.7	1
SA58(C)A	58	64.4	71.2	1.0	93.6	5.3	1
SA60(C)A	60	66.7	73.7	1.0	96.8	5.2	1
SA64(C)A	64	71.1	78.6	1.0	103.0	4.9	1
SA70(C)A	70	77.8	86.0	1.0	113.0	4.4	1
SA75(C)A	75	83.3	92.1	1.0	121.0	4.1	1
SA78(C)A	78	86.7	95.8	1.0	126.0	4.0	1
SA85(C)A	85	94.4	104.0	1.0	137.0	3.6	1
SA90(C)A	90	100.0	111.0	1.0	146.0	3.4	1
SA100(C)A	100	111.0	123.0	1.0	162.0	3.1	1
SA110(C)A	110	122.0	135.0	1.0	177.0	2.8	1
SA120(C)A	120	133.0	147.0	1.0	193.0	2.7	1
SA130(C)A	130	144.0	159.0	1.0	209.0	2.4	1
SA150(C)A	150	167.0	185.0	1.0	243.0	2.1	1
SA160(C)A	160	178.0	197.0	1.0	259.0	1.9	1
SA170(C)A	170	189.0	209.0	1.0	275.0	1.8	1

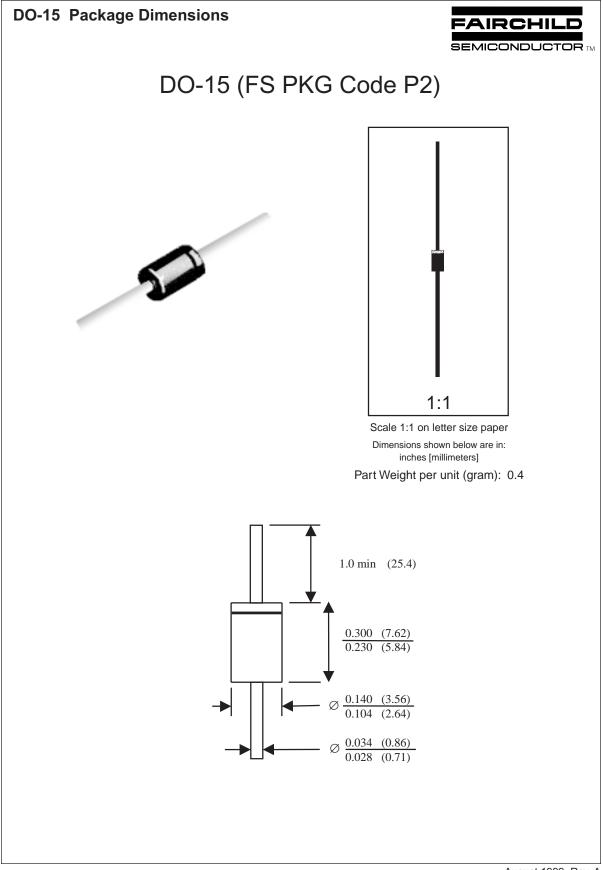
#### **Electrical Characteristics** - 25°C unlo

\* For bidirectional parts with  $V_{_{RWM}}\!\!<\!\!10V\!,$  the  $I_{_R}$  max limit is doubled.



SA5.0(C)A - SA170(C)A, Rev. A

SA5.0(C)A - SA170(C)A



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