

Micro Commercial Components

Features

- Glass passivated chip
- Low leakage
- Uni and Bidirectional unit
- Excellent clamping capability
- UL Recognized file # E331408
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Phone: (818) 701-4933

CA 91311

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Micro Commercial Components 20736 Marilla Street Chatsworth

(818) 701-4939

- Fast Response Time
- Halogen free available upon request by adding suffix "-HF"

MECHANICAL DATA

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: Unidirectional-type number and cathode band Bidirectional-type number only
- Weight: 0.4 grams

Maximum Ratings

- Operating Temperature: -55°C to +175°C
- Storage Temperature: -55°C to +175°C
- For capacitive load, derate current by 20%

Electrical Characteristics @ 25°C Unless Otherwise Specified

Peak Pulse Power Dissipation	P_{PPM}	500W	T _A =25°C
Maximum			I _{FM} =35А;
Instantaneous	V _F	3.5V	
Forward Voltage			TJ=25°C∗
Steady State Power	Б	3.0W	T∟=75°C
Dissipation	P _{M(AV)}	3.0W	

*Pulse test: Pulse width 300 usec, Duty cycle 1%

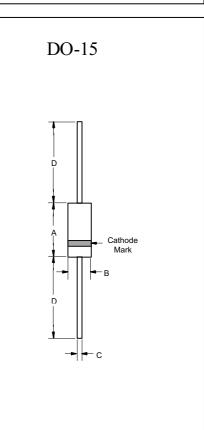
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7(a).

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

500WATTS TRANSIENT

VOLTAGE SUPPRESSOR

5.0 TO 170 VOLTS



DIMENSIONS					
DIM	INCHES		ММ		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.230	0.300	5.80	7.60	
В	0.104	0.140	2.60	3.60	
С	0.026	0.034	0.70	0.90	
D	1.000		25.40		
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SA5.0(C)(A) THRU SA170(C)(A)

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	CC NUMBER	REVERSE STAND- OFF VOLTAGE	VOLTAGE VBR(V)	BREAKDOWN VOLTAGE VBR(V)	TEST CURRENT IT (mA)	MAXIMUM CLAMPING VOLTAGE @Ipp Vc(V)	PEAK PULSE CURRENT	REVERSE LEAKAGE @ VRWM IR(µ A)	Maxium Temperature Coefficient of V _(BR) (mV/
UNI-Polar	BI-Polar	VRWM(V)	MIN.@IT	MAX.@IT			lpp (A)	π(μ.Α)	°С)
SA5.0A	SA5.0CA	5.0	6.40	7.00	10	9.2	55.4	600	5
SA6.0A	SA6.0CA	6.0	6.67	7.37	10	10.3	49.5	600	5
SA6.5A	SA6.5CA	6.5	7.22	7.98	10	11.2	45.5	400	5
SA7.0A	SA7.0CA	7.0	7.78	8.60	10	12	42.5	150	6
SA7.5A	SA7.5CA	7.5	8.33	9.21	1	12.9	39.5	50	7
SA8.0A	SA8.0CA	8.0	8.89	9.83	1	13.6	37.5	25	7
SA8.5A	SA8.5CA	8.5	9.44	10.40	1	14.4	35.4	10	8
SA9.0A	SA9.0CA	9.0	10.00	11.10	1	15.4	33.1	5	9
SA10A	SA10CA	10.0	11.10	12.30	1	17	30	1	10
SA11A	SA11CA	11.0	12.20	13.50	1	18.2	28	1	11
SA12A	SA12CA	12.0	13.30	14.70	1	19.9	25.6	1	12
SA13A	SA13CA	13.0	14.40	15.90	1	21.5	23.7	1	13
SA14A	SA14CA	14.0	15.60	17.20	1	23.2	22	1	14
SA15A	SA15CA	15.0	16.70	18.50	1	24.4	20.9	1	16
SA16A	SA16CA	16.0	17.80	19.70	1	26	19.6	1	17
SA17A	SA17CA	17.0	18.90	20.90	1	27.6	18.5	1	19
SA18A	SA18CA	18.0	20.00	22.10	1	29.2	17.5	1	20
SA20A	SA20CA	20.0	22.20	24.50	1	32.4	15.7	1	23
SA22A	SA22CA	22.0	24.40	26.90	1	35.5	14.4	1	25
SA24A	SA24CA	24.0	26.70	29.50	1	38.9	13.1	1	28
SA26A	SA26CA	26.0	28.90	31.90	1	42.1	12.1	1	30
SA28A	SA28CA	28.0	31.10	34.40	1	45.4	11.2	1	31
SA30A	SA30CA	30.0	33.30	36.80	1	48.4	10.5	1	36
SA33A	SA33CA	33.0	36.70	40.60	1	53.3	9.6	1	39
SA36A	SA36CA	36.0	40.00	44.20	1	58.1	8.8	1	41
SA40A	SA40CA	40.0	44.40	49.10	1	64.5	7.9	1	46
SA43A	SA43CA	43.0	47.80	52.80	1	69.4	7.3	1	50
SA45A	SA45CA	45.0	50.00	55.30	1	72.7	7	1	52
SA48A	SA48CA	48.0	53.30	58.90	1	77.4	6.6	1	56
SA51A	SA51CA	51.0	56.70	62.70	1	82.4	6.2	1	61
SA54A	SA54CA	54.0	60.00	66.30	1	87.1	5.9	1	65
SA58A	SA58CA	58.0	64.40	71.20	1	93.6	5.4	1	70
SA60A	SA60CA	60.0	66.70	73.70	1	96.8	5.3	1	71
SA64A	SA64CA	64.0	71.10	78.60	1	103	5	1	76
SA70A	SA70CA	70.0	77.80	86.00	1	113	4.5	1	85
SA75A	SA75CA	75.0	83.30	92.10	1	121	4.2	1	91
SA78A	SA78CA	78.0	86.70	95.80	1	126	4	1	95
SA85A	SA85CA	85.0	94.40	104.00	1	137	3.7	1	103
SA90A	SA90CA	90.0	100.00	111.00	1	146	3.5	1	110
SA100A	SA100CA	100.0	111.00	123.00	1	162	3.1	1	123
SA110A	SA110CA	110.0	122.00	135.00	1	177	2.9	1	133
SA120A	SA120CA	120.0	133.00	147.00	1	193	2.6	1	146
SA130A	SA130CA	130.0	144.00	159.00	1	209	2.4	1	158
SA150A	SA150CA	150.0	167.00	185.00	1	243	2.1	1	184
SA160A	SA160CA	160.0	178.00	197.00	1	259	2	1	196
SA170A	SA170CA	170.0	189.00	209.00	1	275	1.9	1	208
0,11,0,1	0,1100,4	1.0.0	100.00	200.00			1.0		200

For bidirectional type having Vrwm of 10 volts and less, the IR limit is double.

For parts without A , the VBR is +/-10%

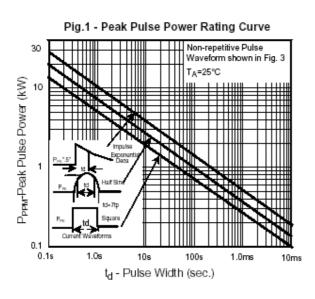
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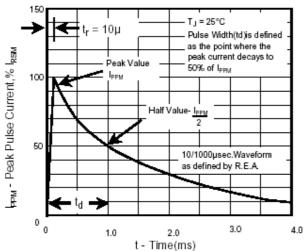
SA5.0(C)(A) THRU SA170(C)(A)

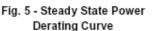
Ratings and

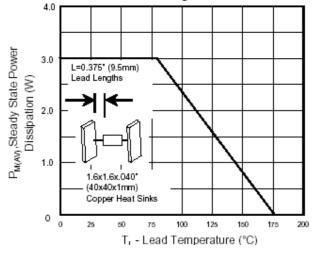
Characteristic Curves(TA=25°C unless otherwise noted)











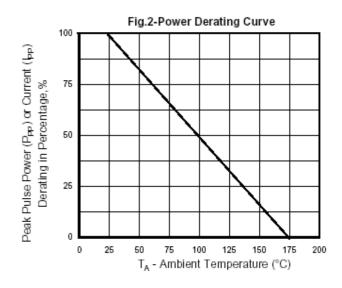
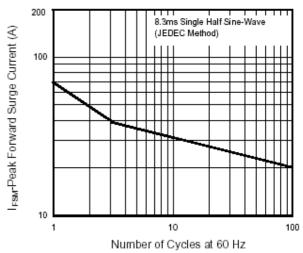
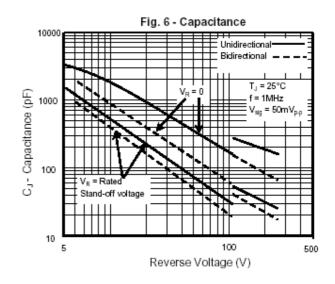


Fig.4 - Maximum Non-Repetitive Forward Surge Current Uni-Directional Only





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Ordering Information :

Device	Packing		
Part Number-TP	Tape&Reel: 4Kpcs/Reel		
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box		
Part Number-BP	Bulk: 25Kpcs/Carton		

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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