Electrical Characteristics (@ $T_A = 25$ °C Unless Otherwise Noted)

Unidirectional Device		Bidirectional Device		Breakdown Voltage V _{BR} (Volts)			Working Peak Reverse Voltage	Maximum Reverse Leakage @ VRWM	Maximum Clamping Voltage @ I _{pp} (10/1000 μs)	Maximum Peak Pulse Current (10/1000 μs)	Maximum Clamping Voltage @ Ipp (8/20 µs)	Maximum Peak Pulse Current (8/20 µs)
Part No.	Marking	Part No.	Marking	Min.	Max.	@ I _T (mA)	V _{RWM} (V)	I _R (μ A)	V _C (V)	I _{pp} (A)	V _C (V)	I _{pp} (A)
SMAJ5.0A	HE	SMAJ5.0CA	TE	6.40	7.00	10	5.0	800	9.2	43.5	12.0	217.5
SMAJ6.0A	HG	SMAJ6.0CA	TG	6.67	7.37	10	6.0	800	10.3	38.8	13.4	194.0
SMAJ6.5A	HK	SMAJ6.5CA	TK	7.22	7.98	10	6.5	500	11.2	35.7	14.6	178.5
SMAJ7.0A	HM	SMAJ7.0CA	TM	7.78	8.60	10	7.0	200	12.0	33.3	15.6	166.5
SMAJ7.5A	HP	SMAJ7.5CA	TP	8.33	9.21	1.0	7.5	100	12.9	31.0	16.8	155.0
SMAJ8.0A	HR	SMAJ8.0CA	TR	8.89	9.83	1.0	8.0	50	13.6	29.4	17.7	147.0
SMAJ8.5A	HT	SMAJ8.5CA	TT	9.44	10.4	1.0	8.5	20	14.4	27.8	18.7	139.0
SMAJ9.0A	HV	SMAJ9.0CA	TV	10.0	11.1	1.0	9.0	10	15.4	26.0	20.0	130.0
SMAJ10A	HX	SMAJ10CA	TX	11.1	12.3	1.0	10	5	17.0	23.5	22.1	117.5
SMAJ11A	HZ	SMAJ11CA	TZ	12.2	13.5	1.0	11	1.0	18.2	22.0	23.7	110.0
SMAJ12A	IE	SMAJ12CA	UE	13.3	14.7	1.0	12	1.0	19.9	20.1	25.9	100.5
SMAJ13A	IG	SMAJ13CA	UG	14.4	15.9	1.0	13	1.0	21.5	18.6	28.0	93.0
SMAJ14A	IK	SMAJ14CA	UK	15.6	17.2	1.0	14	1.0	23.2	17.2	30.2	86.0
SMAJ15A	IM	SMAJ15CA	UM	16.7	18.5	1.0	15	1.0	24.4	16.4	31.7	82.0
SMAJ16A	IP	SMAJ16CA	UP	17.8	19.7	1.0	16	1.0	26.0	15.4	33.8	77.0
SMAJ17A	IR	SMAJ17CA	UR	18.9	20.9	1.0	17	1.0	27.6	14.5	35.9	72.5
SMAJ18A	IT	SMAJ18CA	UT	20.0	22.1	1.0	18	1.0	29.2	13.7	38.0	68.5
SMAJ20A	IV	SMAJ20CA	UV	22.2	24.5	1.0	20	1.0	32.4	12.3	42.1	61.5
SMAJ22A	IX	SMAJ22CA	UX	24.4	26.9	1.0	22	1.0	35.5	11.3	46.2	56.5
SMAJ24A	ΙZ	SMAJ24CA	UZ	26.7	29.5	1.0	24	1.0	38.9	10.3	50.6	51.5
SMAJ26A	JE	SMAJ26CA	VE	28.9	31.9	1.0	26	1.0	42.1	9.5	54.7	47.5
SMAJ28A	JG	SMAJ28CA	VG	31.1	34.4	1.0	28	1.0	45.4	8.8	59.0	44.0
SMAJ30A	JK	SMAJ30CA	VK	33.3	36.8	1.0	30	1.0	48.4	8.3	62.9	41.5
SMAJ33A	JM	SMAJ33CA	VM	36.7	40.6	1.0	33	1.0	53.3	7.5	69.3	37.5
SMAJ36A	JP	SMAJ36CA	VP	40	44.2	1.0	36	1.0	58.1	6.9	75.5	34.5
SMAJ40A	JR	SMAJ40CA	VR	44.4	49.1	1.0	40	1.0	64.5	6.2	83.9	31.0
SMAJ43A	JT	SMAJ43CA	VT	47.8	52.8	1.0	43	1.0	69.4	5.8	90.2	29.0
SMAJ45A	JV	SMAJ45CA	VV	50	55.3	1.0	45	1.0	72.7	5.5	94.5	27.5
SMAJ48A	JX	SMAJ48CA	VX	53.3	58.9	1.0	48	1.0	77.4	5.2	100.6	26.0
SMAJ51A	JZ	SMAJ51CA	VZ	56.7	62.7	1.0	51	1.0	82.4	4.9	107.1	24.5
SMAJ54A	RE	SMAJ54CA	WE	60	66.3	1.0	54	1.0	87.1	4.6	113.2	23.0
SMAJ58A	RG	SMAJ58CA	WG	64.4	71.2	1.0	58	1.0	93.6	4.3	121.7	21.5
SMAJ60A	RK	SMAJ60CA	WK	66.7	73.7	1.0	60	1.0	96.8	4.1	125.8	20.5
SMAJ64A	RM	SMAJ64CA	WM	71.1	78.6	1.0	64	1.0	103	3.9	133.9	19.5
SMAJ70A	RP	SMAJ70CA	WP	77.8	86.0	1.0	70	1.0	113	3.5	146.9	17.5
SMAJ75A	RR	SMAJ75CA	WR	83.3	92.1	1.0	75	1.0	121	3.3	157.3	16.5
SMAJ78A	RT	SMAJ78CA	WT	86.7	95.8	1.0	78	1.0	126	3.2	163.8	16.0
SMAJ85A SMAJ90A	RV RX	SMAJ85CA	WV WX	94.4	104 111	1.0	85 90	1.0	137 146	2.9 2.7	178.1 189.8	14.5 13.5
	RZ	SMAJ90CA	WZ	111	123	1.0	100	1.0	162		210.6	13.5
SMAJ100A	SE	SMAJ100CA	XE	122	135	1.0	110	1.0	177	2.5 2.3	230.1	11.5
SMAJ110A SMAJ120A	SG	SMAJ110CA SMAJ120CA	XG	133	147	1.0	120	1.0	193	2.3	250.1	10.5
SMAJ130A	SK	SMAJ130CA	XK	144	159	1.0	130	1.0	209	1.9	250.9	9.5
SMAJ150A	SM	SMAJ150CA	XM	167	185	1.0	150	1.0	243	1.6	315.9	8.0
SMAJ160A	SP	SMAJ160CA	XP	178	197	1.0	160	1.0	259	1.5	336.7	7.5
SMAJ170A	SR	SMAJ170CA	XR	189	209	1.0	170	1.0	275	1.5	357.5	7.5
SMAJ180A	ST	SMAJ180CA	XT	201	222	1.0	180	1.0	292	1.5	379.6	7.5
SMAJ200A	SV	SMAJ200CA	XV	224	247	1.0	200	1.0	324	1.4	421.2	6.0
SMAJ220A	SX	SMAJ220CA	XX	246	272	1.0	220	1.0	356	1.1	462.8	5.5
SMAJ250A	SZ	SMAJ250CA	XZ	279	309	1.0	250	1.0	405	1.0	526.5	5.0
SMAJ300A	FE	SMAJ300CA	GE	335	371	1.0	300	1.0	486	0.8	631.8	4.0
SMAJ350A	FG	SMAJ350CA	GG	391	432	1.0	350	1.0	567	0.8	737.1	3.5
SMAJ400A	FK	SMAJ400CA	GK	447	494	1.0	400	1.0	648	0.7	842.4	3.0
SMAJ434A	434U	SMAJ434CA	434D	485	535	1.0	434	1.0	698	0.6	907.4	2.9
SMAJ440A	FM	SMAJ440CA	GM	492	543	1.0	440	1.0	713	0.6	926.9	3.0
SIVIAJ44HA												

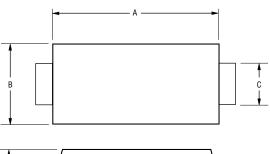
Notes: 1. Suffix 'A' denotes a 5 % tolerance unidirectional device.

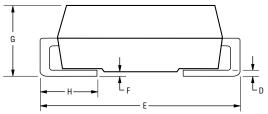
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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^{2.} Suffix 'CA' denotes a 5 % tolerance bidirectional device.

^{3.} For bidirectional devices with a $\rm V_{\mbox{\scriptsize R}}$ of 10 volts or less, the $\rm I_{\mbox{\scriptsize R}}$ limit is double.

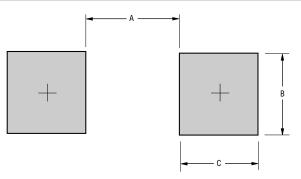
Product Dimensions





Dimension	SMA (DO-214AC)			
Α	3.99 - 4.50			
^	(0.157 - 0.177)			
В	2.54 - 2.79			
	(0.100 - 0.110)			
С	1.25 - 1.65			
	(0.049 - 0.065)			
D	0.15 - 0.31			
	(0.006 - 0.012)			
F	4.93 - 5.28			
	(0.194 - 0.208)			
F	0.203 (0.008) MAX.			
Г	(0.008) WAX.			
G	1.98 - 2.29			
	(0.078 - 0.090)			
н	0.76 - 1.52			
	(0.030 - 0.060)			

Recommended Footprint



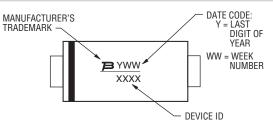
Dimension	SMA (DO-214AC)		
A (Max.)	2.70		
A (IVIAA.)	(0.106)		
D (Min)	2.10		
B (Min.)	(0.083)		
C (Min)	1.27		
C (Min.)	(0.050)		

MM DIMENSIONS: (INCHES)

Physical Specifications

CaseMolded plastic per UL Class 94V-0 Polarity..... Cathode band indicates unidirectional device No cathode band indicates bidirectional device Weight0.064 grams

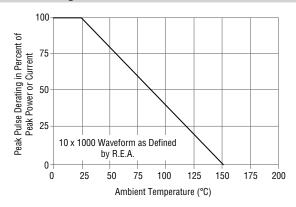
Typical Part Marking



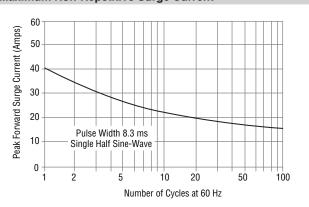
BOURNS

Rating & Characteristic Curves

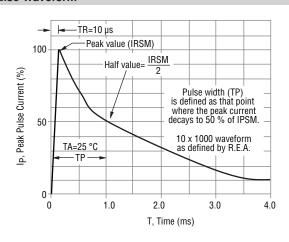
Pulse Derating Curve



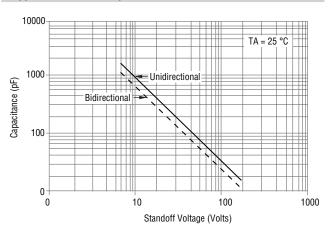
Maximum Non-Repetitive Surge Current



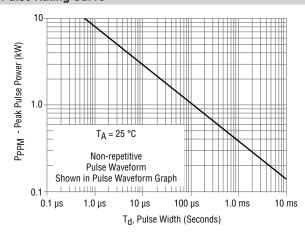
Pulse Waveform



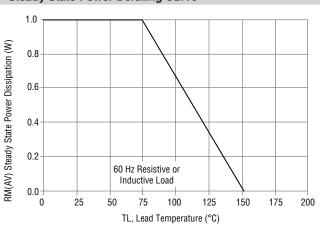
Typical Junction Capacitance



Pulse Rating Curve



Steady State Power Derating Curve



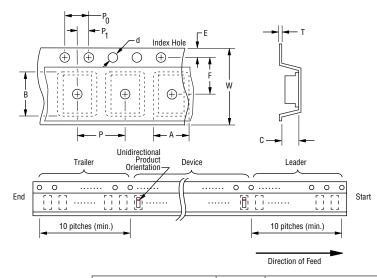
Specifications are subject to change without notice.

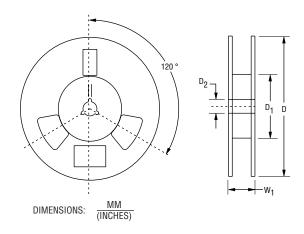
Users should verify actual device performance in their specific applications.

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Packaging Information

The product will be dispensed in tape and reel format (see diagram below).





Devices are packed in accordance with EIA 481 standard specifications shown here.

Item	Symbol	SMA (DO-214AC)				
		7 Inch Reel	13 Inch Reel			
Carrier Width	A	$\frac{2.90 \pm 0.20}{(0.114 \pm 0.008)}$				
Carrier Length	В	5.50 ± 0.20				
Carrior Longin		(0.217 ± 0.008)				
Carrier Depth	С	$\frac{2.26 \pm 0.20}{(0.089 \pm 0.008)}$				
Sprocket Hole	d	$\frac{1.50 \pm 0.10}{(0.061 \pm 0.004)}$				
Reel Outside Diameter	D	<u>178</u> <u>330</u> (12.992)				
Reel Inner Diameter	D ₁	50.0 (1.969) MIN.				
Feed Hole Diameter	D ₂	$\frac{13.0 \pm 0.20}{(0.512 \pm 0.008)}$				
Sprocket Hole Position	E	$\frac{1.75 \pm 0.10}{(0.069 \pm 0.004)}$				
Punch Hole Position	F	$\frac{5.50 \pm 0.05}{(0.217 \pm 0.002)}$				
Punch Hole Pitch	Р	$\frac{4.00 \pm 0.10}{(0.157 \pm 0.004)}$				
Sprocket Hole Pitch	P ₀	$\frac{4.00 \pm 0.10}{(0.157 \pm 0.004)}$				
Embossment Center	P ₁	$\frac{2.00 \pm 0.05}{(0.079 \pm 0.002)}$				
Overall Tape Thickness	Т	$\frac{0.30 \pm 0.10}{(0.012 \pm 0.004)}$				
Tape Width	w	$\frac{12.00 \pm 0.30}{(0.472 \pm 0.012)}$				
Reel Width	I Width W_1 $\frac{18.4}{(0.724)}$ MAX.		3.4 724) MAX.			
Quantity per Reel		1,000 5,000				

REV. 08/20

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