

Technical Data
Data Sheet N1982. Rev. -





SMAJ350CA SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR



Features

- For surface mounted applications in order to optimize board space
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Excellent clamping capability
- Repetition rate (duty cycle): 0.01%
- High temperature soldering: 250° C/10 seconds at terminals
- Plastic package has Underwriters Laboratory Flammability Classification 94 V-O

Mechanical Data

- Case: SMA Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Mounting Position: Any
- Polarity: Bipolar
- Weight:0.064 grams(approx.)

Maximum Ratings and Thermal Characteristics@TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Junction Temperature Range	TJ	-65 to +150	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C
Peak Pulse Power (with 10/1000μs waveform) (Fig.1)(Note 1), (Note 2)	P _{PPM}	400	W
Typical Thermal Resistance Junction to Lead	R _{θJL}	30	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	120	°C/W

Note: 1. Non-repetitive current pulse, per Fig.3 and derated above Ta=25 °C per Fig.2.

2. Mounted on Copper Pad area of 5.0x5.0 mm to each terminal.

Ordering Information

Device	Package	Shipping	
SMAJ350CA	SMA (Pb-Free)	5000pcs / reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

UG = Marking code YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

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Technical Data Data Sheet N1982, Rev. -

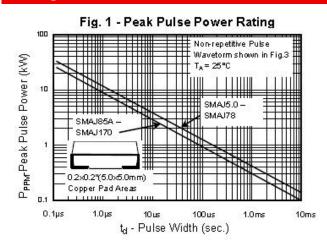


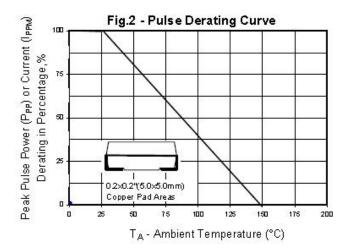


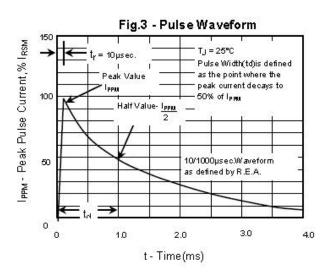
Electrical Characteristics@TA=25° C unless otherwise specified

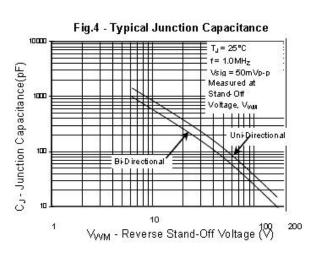
Part Number	Marking code	Reverse Stand off Voltage V _R	Volta	kdown ge V _{BR} olts)) I _T	Test Current I _T	Maximum Clamping Voltage V _c @ lpp	Maximum Peak Pulse Current Ipp	Maximum Reverse Leakage I _R @V _R
		(Volts)	MIN.	MAX.	(mA)	(Volts)	(A)	(μΑ)
SMAJ350CA	UG	350	391	432	1	567	0.7	5

Ratings and Characteristics Curves









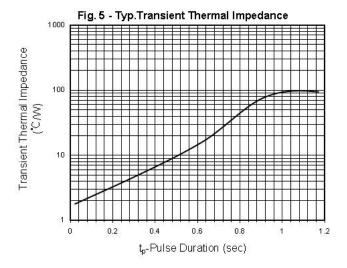
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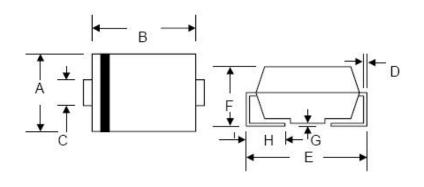
Technical Data Data Sheet N1982, Rev. -





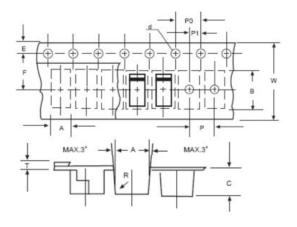


Mechanical Dimensions SMA(Inches/Millimeters)



	SMA/DO-214AC			
Dim.	Min.	Max.	Min.	Max.
Α	2.40	2.90	0.094	0.114
В	3.99	4.75	0.157	0.187
С	1.05	1.70	0.041	0.067
D	0.15	0.51	0.006	0.020
E	4.80	5.66	0.189	0.223
F	1.90	2.95	0.075	0.116
G	0.05	0.203	0.002	0.008
Н	0.76	1.52	0.030	0.600
	In n	nm	In in	ıch

Carrier Tape Specification SMA



SYMBOL	Millimeters			
STWIBOL	Min.	Max.		
Α	2.97	3.17		
В	5.70	5.90		
С	2.32	2.52		
d	1.40	1.60		
E	1.40	1.60		
F	5.60	5.70		
Р	3.90	4.10		
P0	3.90	4.10		
P1	1.90	2.10		
Т	0.25	0.35		
W	11.80	12.20		

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Technical Data Data Sheet N1982, Rev. -





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