

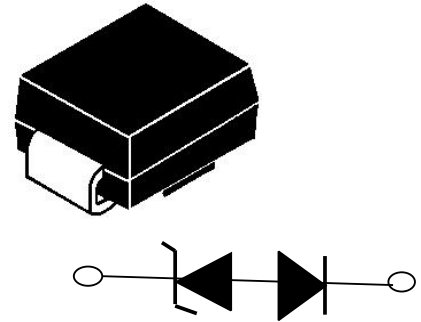


## 400W Surface Mount Low Capacitance Transient Voltage Suppressors

### Features

- Peak power dissipation 400W @10 x 1000 us Pulse
- Low Capacitance and excellent clamping capability.
- Glass passivated junction.
- Fast response time: typically less than 1ps from 0 Volts to BV min
- Typical  $I_R$  less than 1uA when  $V_{BR}$  min above 12V.
- IEC 61000-4-2 ESD 30KV(Air), 30KV(Contact)
- ESD protection of data lines in accordance with IEC 61000-4-2
- EFT protection of data lines in accordance with IEC 61000-4-4
- RoHS compliant
- Lead-free finish

SMA



### Mechanical Characteristics

- CASE: SMA Molded Plastic
- Mounting Position: Any
- Polarity: by cathode band denotes uni-directional device, none cathode band denotes bi-directional device.
- Terminal: Solder plated

### Maximum Ratings and Characteristics @ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Value	Units
Peak Pulse Power Dissipation on 10/1000 us Waveform (Note 1, FIG.1)	$P_{PPM}$	Min 400	W
Peak Pulse Current of on 10/1000us Waveform (Note 1, FIG.3)	$I_{PPM}$	See Table 1	A
Operating Junction Temperature Range	$T_J$	-55 to 150	°C
Storage Temperature Range	$T_{STG}$	-55 to 150	°C

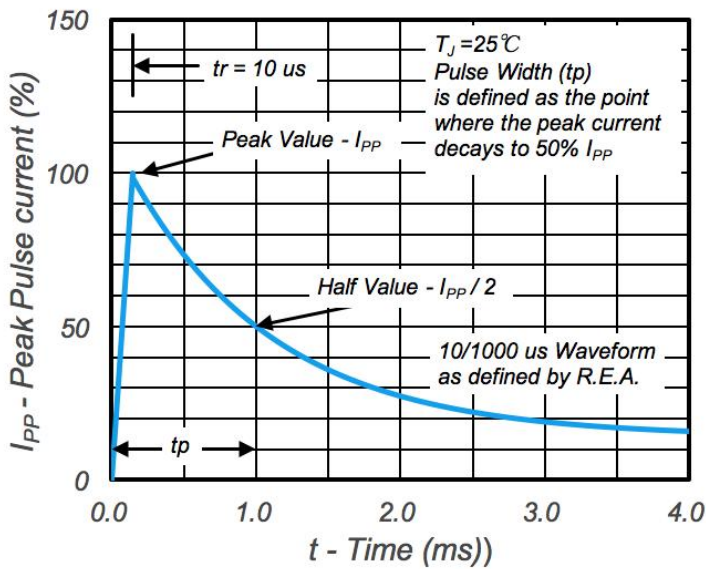
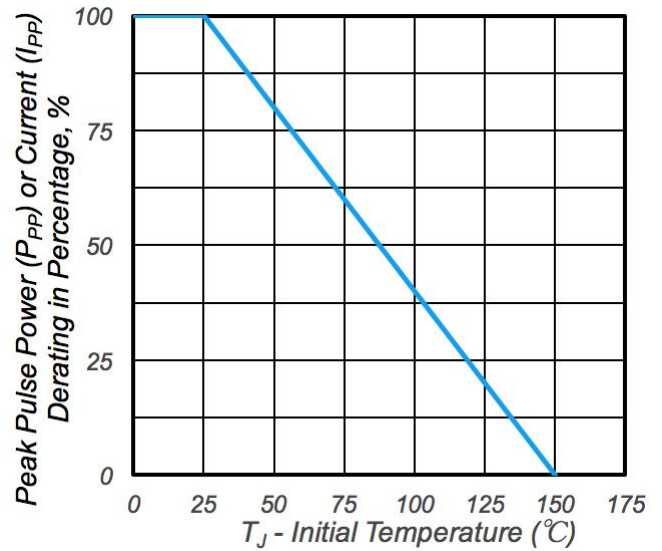
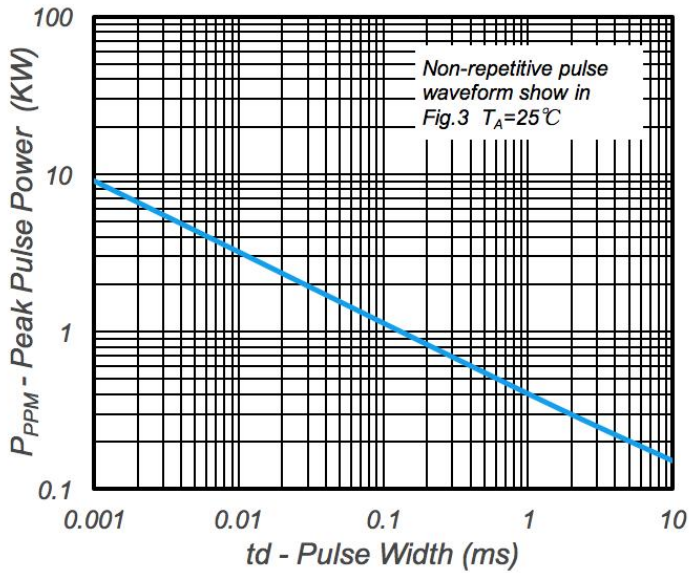
Notes:

1. Non-repetitive current pulse, per Fig.3 and derated above  $T_A=25^\circ\text{C}$  per Fig.2.

## Electrical Specification (T<sub>A</sub>=25@25°C unless otherwise specified)

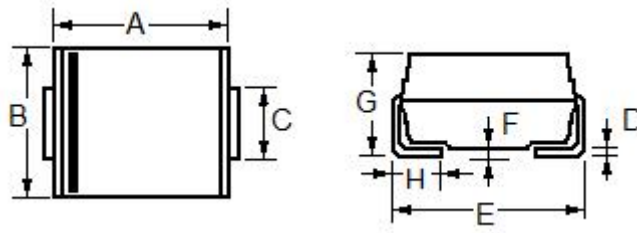
Type Number	Reverse Stand-Off Voltage	Reverse Leakage @V <sub>RWM</sub>	Breakdown Voltage Min. @I <sub>T</sub>	Test Current	Maximum Clamping Voltage @I <sub>PP</sub>	Peak Pulse Current	Typical Capacitance @0V 1MHZ
(Uni)	V <sub>RWM</sub> (V)	I <sub>R</sub> (uA)	V <sub>BR MIN</sub> (V)	I <sub>T</sub> (mA)	V <sub>C</sub> (V)	I <sub>PP</sub> (A)	C <sub>j</sub> (pF)
SLCA5.0	5.0	300	7.60	1	10.0	50.0	20
SLCA6.0	6.0	300	7.90	1	11.2	45.0	20
SLCA7.0	7.0	300	8.33	1	12.6	40.0	20
SLCA8.0	8.0	100	8.89	1	13.4	37.0	20
SLCA8.5	8.5	50	9.44	1	14.0	36.0	20
SLCA10	10.0	5	11.10	1	16.3	31.0	20
SLCA12	12.0	1	13.30	1	19.0	26.0	20
SLCA15	15.0	1	16.70	1	23.6	21.0	20
SLCA18	18.0	1	20.00	1	28.8	17.0	20
SLCA22	22.0	1	24.40	1	35.4	14.0	20
SLCA26	26.0	1	28.90	1	42.3	12.0	20
SLCA30	30.0	1	33.30	1	48.6	110.0	20
SLCA36	36.0	1	40.00	1	60.0	8.0	20
SLCA45	45.0	1	50.00	1	77.0	6.0	20
SLCA50	50.0	1	55.50	1	88.0	6.0	20

## Ratings and Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)



## Package Outline Dimensions

## DO-214AC (SMA)



Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	3.99	4.50	0.157	0.177
B	2.54	2.79	0.100	0.110
C	1.25	1.65	0.049	0.065
D	0.152	0.305	0.006	0.012
E	4.93	5.28	0.194	0.208
F	----	0.203	----	0.008
G	1.98	2.29	0.078	0.090
H	0.76	1.52	0.030	0.060