	E480232

Features

- For Surface Mount Applications in Order to Optimize Board Space
- Excellent Clamping Capability
  Fast Response Time: Typical Less Than 1.0ps From 0 Volts to V_B Minimum
- Ideal for Data Line Applications
- Halogen Free. “Green” Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Mechanical Data

- Terminals: Solderable Per MIL-STD-750, Method 2026
- The Band Denotes TVS Cathode
- Maximum Soldering Temperature: 260°C for 10 Seconds

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C

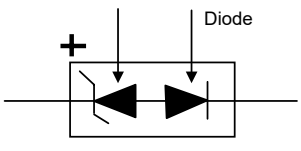
Electrical Characteristics @ 25°C Unless Otherwise Specified

Peak Pulse Power Surge Current on 10/1000μs Waveform	I_{PP}	See the Table	Note 3
Peak Pulse Power Dissipation	P_{PP}	500W	Note 3,4
Steady State Power Dissipation	P_D	3.0W	T_L = 75°C With at lengths 0.375"(9.5mm)

Notes:

1.Halogen free "Green"products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2.High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
3.Non-repetitive current pulse, per Fig.2 and derated above T_A=25 °C per Fig.3.
4.Mounted on 5.0mm^2 copper pads to each terminal.

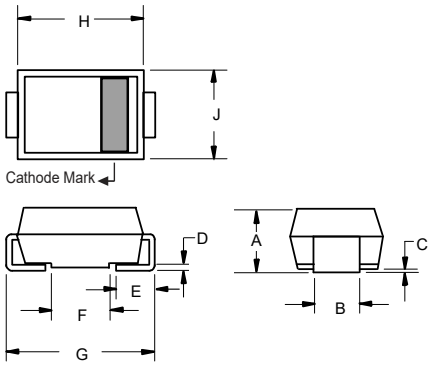
Transient Voltage Suppressors



Schematic Diagram

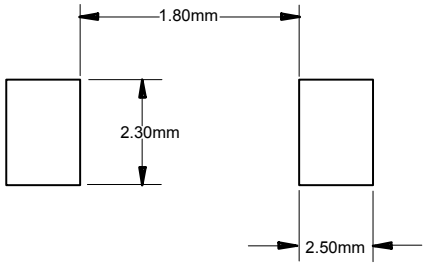
500 Watt TVS
5 to 50 Volts

SMB (DO-214AA)
(LEAD FRAME)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.079	0.103	2.00	2.62	
B	0.075	0.087	1.91	2.21	
C	0.002	0.008	0.05	0.20	
D	0.006	0.012	0.15	0.31	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.200	0.220	5.08	5.59	
H	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC PART NUMBERS	STAND- OFF VOLTAGE VWM (VOLTS)	MINIMUM BREAKDOWN VOLTAGE AT I_T=1.0mA $V_{(BR)}$ (VOLTS)	MAXIMUM REVERSE LEAKAGE AT V_{WM} I_R(μA)	MAXIMUM CLAMPING VOLTAGE AT I_{pp}=5.0A V_C (V)	MAXIMUM PEAK PULSE CURRENT PER FIG.2 I_{pp} (AMPS)	MAXIMUM JUNCTION CAPACITANCE AT 0 VOLTS (pF)	WORKING INVERSE BLOCKING VOLTAGE V_{WIB} (VOLTS)	INVERSE BLOCKING LEAKAGE CURRENT V_{WIB} IIB(mA)	PEAK INVERSE BLOCKING VOLTAGE V_{PIB} (VOLTS)	Marking Code
SMBSAC5.0	5.0	7.6	300	10.0	44.0	45	75	1.0	100	SKE
SMBSAC6.0	6.0	7.9	300	11.2	41.0	45	75	1.0	100	SKG
SMBSAC7.0	7.0	8.3	300	12.6	38.0	45	75	1.0	100	SKM
SMBSAC8.0	8.0	8.9	100	13.4	36.0	45	75	1.0	100	SKR
SMBSAC8.5	8.5	9.44	50	14.0	34.0	45	75	1.0	100	SKT
SMBSAC10	10.0	11.10	5	16.3	29.0	45	75	1.0	100	SKX
SMBSAC12	12.0	13.30	5	19.0	25.0	45	75	1.0	100	SLE
SMBSAC15	15.0	16.70	5	23.6	20.0	45	75	1.0	100	SLM
SMBSAC18	18.0	20.00	5	28.8	15.0	45	75	1.0	100	SLT
SMBSAC22	22.0	24.40	5	35.4	14.0	45	75	1.0	100	SLX
SMBSAC26	26.0	28.90	5	42.3	11.1	45	75	1.0	100	SME
SMBSAC30	30.0	33.30	5	48.6	10.0	45	75	1.0	100	SMK
SMBSAC36	36.0	40.00	5	60.0	8.6	45	75	1.0	100	SMP
SMBSAC45	45.0	50.00	5	77.0	6.8	45	150	1.0	200	SMV
SMBSAC50	50.0	55.50	5	88.0	5.8	45	150	1.0	200	SMZ

Curve Characteristics

Fig. 1 - Peak Pulse Power Rating Curve

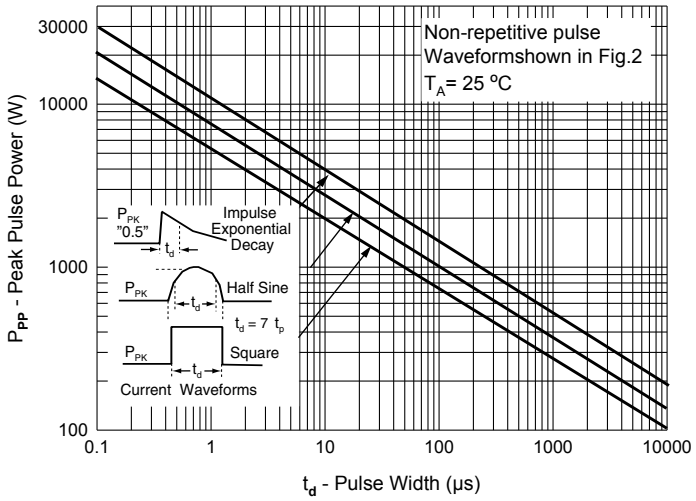


Fig. 2 - Pulse Waveform

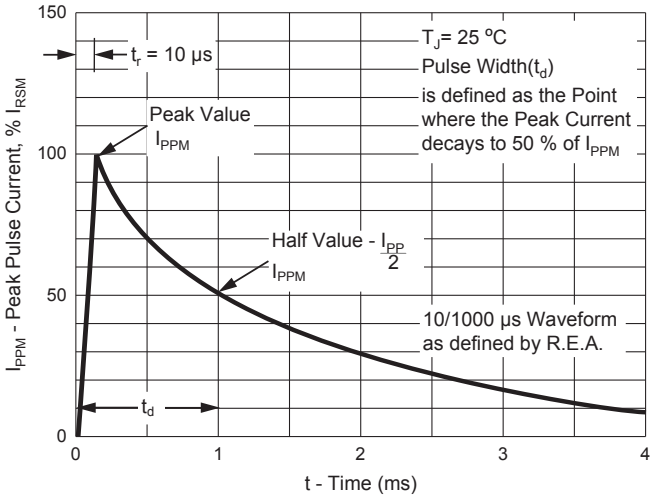
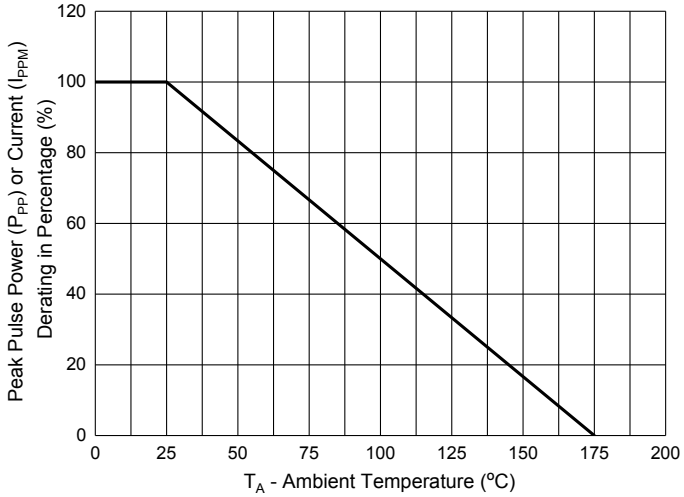


Fig. 3 - Pulse Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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