

Features

- AEC-Q101 Qualified
- Meet ISO7637-2 5a Surge Specification
- Low Leakage
- Glass Passivated Junction
- Excellent Clamping Capability
- Bi-directional Polarity
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

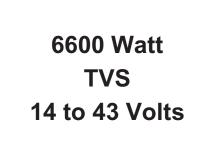
- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C

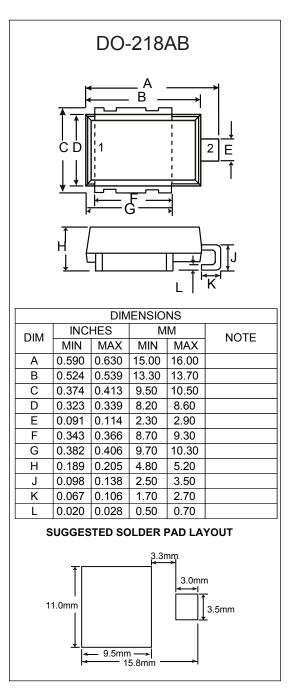
Peak Pulse Power Surge Current with a 10/1000µs Waveform	I _{PPM}	See the Table	Note 2
Peak Pulse Power Dissipation with a 10/1000µs Waveform	P _{PPM}	6600W	Note 2
Peak Pulse Power Dissipation with a 10/10000µs Waveform	P _{PPM}	3650W	Note 2
Power Dissipation On Infinite Heatsink	P _D	8.0W	T _L =25°C

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a. 2. Non-repetitive current pulse, per Fig.3 and derated above T_A=25°C per Fig.4

Pin Configuration:









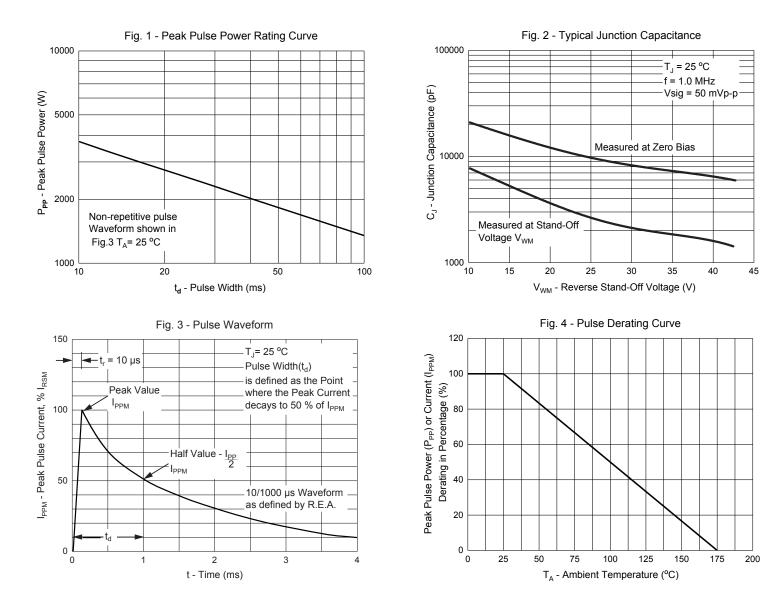
Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Breakdown Voltage V _{BR} @I _T		Maximum Reverse Leakage I _R	Maximum IR@VRWM T _J =150	Working Peak Reverse Voltage V _{RWM}	Maximum Reverse Surge Current IPP	Maximum Clamping Voltage	
Bi-directional	Min (V)	Max (V)	I _⊤ (mA)	@V _{RWM} (μΑ)	(µA)	(V)	(A) ⁽¹⁾	V _C @I _{PP} (V)
SM8S14CA	15.60	17.20	5	10	150	14	284.0	23.2
SM8S15CA	16.70	18.50	5	10	150	15	270.0	24.4
SM8S16CA	17.80	19.70	5	10	150	16	254.0	26.0
SM8S17CA	18.90	20.90	5	10	150	17	239.0	27.6
SM8S18CA	20.00	22.10	5	10	150	18	226.0	29.2
SM8S20CA	22.20	24.50	5	10	150	20	204.0	32.4
SM8S22CA	24.40	26.90	5	10	150	22	186.0	35.5
SM8S24CA	26.70	29.50	5	10	150	24	170.0	38.9
SM8S26CA	28.90	31.90	5	10	150	26	157.0	42.1
SM8S28CA	31.10	34.40	5	10	150	28	145.0	45.4
SM8S30CA	33.30	36.80	5	10	150	30	136.0	48.4
SM8S33CA	36.70	40.60	5	10	150	33	124.0	53.3
SM8S36CA	40.00	44.20	5	10	150	36	114.0	58.1
SM8S40CA	44.40	49.10	5	10	150	40	102.0	64.5
SM8S43CA	47.80	52.80	5	10	150	43	95.1	69.4

Note: 1.Surge current waveform is defined at 10/1000us waveform



Curve Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel:750pcs/Reel	

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SM8S14CA-TPSM8S15CA-TPSM8S16CA-TPSM8S17CA-TPSM8S18CA-TPSM8S20CA-TPSM8S36CA-TPSM8S40CA-TPSM8S43CA-TPSM8S22CA-TPSM8S24CA-TPSM8S26CA-TPSM8S28CA-TPSM8S30CA-TPSM8S33CA-TP