

	E480232
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Features

- AEC-Q101 Qualified
- For Surface Mount Application in Order to Optimize Board Space
- Built-in Strain Relief
- Glass Passivated Junction
- Excellent Clamping Capability
- Repetition Rate(duty cycle):0.5%
- Fast Response Time: Typical Less Than 1ps From 0V to BV Min
- Typical I_D Less Than 1 μ A above 10V
- High Temperature Soldering: 260°C/10 Seconds at Terminals
- Halogen Free
- Moisture Sensitivity Level 1
- For Bidirectional Devices Add "C" To The Suffix of The Part Number: i.e.SMLJ10CAHE3 for 5% Tolerance
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Mechanical Data

- Polarity: Color Band Denotes Positive End(Cathode) Except Bi-directional Types
- Weight: 0.007 ounce, 0.21 gram
- Manufacturing Code Added for Better Tracking
- Standard Packaging: 16mm Tape Per (EIA 481).
- Terminals: Solderable Per MIL-STD-750, Method 2026

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 17.5°C/W Junction to Lead
- Thermal Resistance: 75°C/W Junction to Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

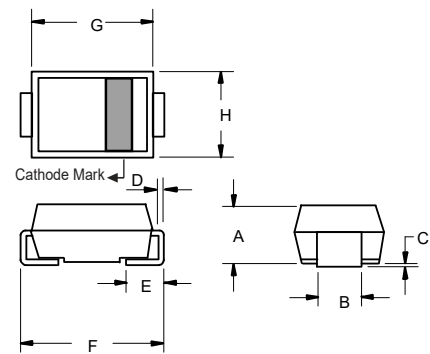
Peak Pulse Power Surge Current on 10/1000 μ s Waveform	I_{PPM}	See the Table	Note 2
Peak Pulse Power Dissipation on 10/1000 μ s Waveform	P_{PPM}	3000W(Min)	Note 2,3
Power Dissipation on infinite heat sink	P_D	6.5W	$T_L = 50^\circ\text{C}$.

Note:

1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
2. Non-repetitive current pulse, per Fig.3 and derated above $T_A=25^\circ\text{C}$ per Fig.4.
3. Mounted on 8.0mm² copper pads to each terminal.

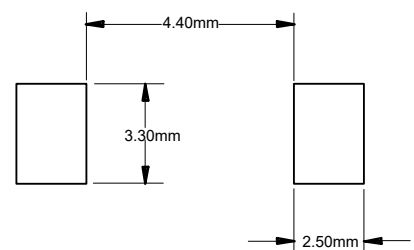
**3000 Watt TVS
10 to 43 Volts**

**SMC (DO-214AB)
(LEAD FRAME)**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.079	0.103	2.00	2.62	
B	0.108	0.128	2.75	3.25	
C	0.002	0.008	0.051	0.203	
D	0.006	0.012	0.152	0.305	
E	0.030	0.060	0.76	1.52	
F	0.305	0.320	7.75	8.13	
G	0.260	0.280	6.60	7.11	
H	0.220	0.245	5.59	6.22	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Reverse Stand -Off Voltage	Breakdown Voltage $V_{BR}(V)$		Test Current	Max. Clamping Voltage @ I_{PP}	Peak Pulse Current	Reverse Leakage Current@ V_{WM}	Marking Code
	$V_{WM}(V)$	Min	Max	$I_T(mA)$	$V_C(V)$	$I_{PP}(A)$	$I_D(\mu A)$	
SMLJ10AHE3	10	11.1	12.3	5	17.0	176.4	15	PDX
SMLJ11AHE3	11	12.2	13.5	5	18.2	164.8	2	PDZ
SMLJ12AHE3	12	13.3	14.7	5	19.9	150.6	2	PEE
SMLJ13AHE3	13	14.4	15.9	5	21.5	139.4	2	PEG
SMLJ14AHE3	14	15.6	17.2	5	23.2	129.4	2	PEK
SMLJ15AHE3	15	16.7	18.5	5	24.4	123.0	2	PEM
SMLJ16AHE3	16	17.8	19.7	5	26.0	115.4	2	PEP
SMLJ17AHE3	17	18.9	20.9	5	27.6	106.6	2	PER
SMLJ18AHE3	18	20.0	22.1	5	29.2	102.8	2	PET
SMLJ20AHE3	20	22.2	24.5	5	32.4	92.6	2	PEV
SMLJ22AHE3	22	24.4	26.9	5	35.5	84.4	2	PEX
SMLJ24AHE3	24	26.7	29.5	5	38.9	77.2	2	PEZ
SMLJ26AHE3	26	28.9	31.9	5	42.1	71.2	2	PFE
SMLJ28AHE3	28	31.1	34.4	5	45.4	66.0	2	PFG
SMLJ30AHE3	30	33.3	36.8	5	48.4	62.0	2	PFK
SMLJ33AHE3	33	36.7	40.6	5	53.3	56.2	2	PFM
SMLJ36AHE3	36	40.0	44.2	5	58.1	51.6	2	PFP
SMLJ40AHE3	40	44.4	49.1	5	64.5	46.4	2	PFR
SMLJ43AHE3	43	47.8	52.8	5	69.4	43.2	2	PFT
SMLJ10CAHE3	10	11.1	12.3	5	17.0	176.4	15	DDX
SMLJ11CAHE3	11	12.2	13.5	5	18.2	164.8	2	DDZ
SMLJ12CAHE3	12	13.3	14.7	5	19.9	150.6	2	DEE
SMLJ13CAHE3	13	14.4	15.9	5	21.5	139.4	2	DEG
SMLJ14CAHE3	14	15.6	17.2	5	23.2	129.4	2	DEK
SMLJ15CAHE3	15	16.7	18.5	5	24.4	123.0	2	DEM
SMLJ16CAHE3	16	17.8	19.7	5	26.0	115.4	2	DEP
SMLJ17CAHE3	17	18.9	20.9	5	27.6	106.6	2	DER
SMLJ18CAHE3	18	20.0	22.1	5	29.2	102.8	2	DET
SMLJ20CAHE3	20	22.2	24.5	5	32.4	92.6	2	DEV
SMLJ22CAHE3	22	24.4	26.9	5	35.5	84.4	2	DEX
SMLJ24CAHE3	24	26.7	29.5	5	38.9	77.2	2	DEZ
SMLJ26CAHE3	26	28.9	31.9	5	42.1	71.2	2	DFE
SMLJ28CAHE3	28	31.1	34.4	5	45.4	66.0	2	DFG
SMLJ30CAHE3	30	33.3	36.8	5	48.4	62.0	2	DFK
SMLJ33CAHE3	33	36.7	40.6	5	53.3	56.2	2	DFM
SMLJ36CAHE3	36	40.0	44.2	5	58.1	51.6	2	DFP
SMLJ40CAHE3	40	44.4	49.1	5	64.5	46.4	2	DFR
SMLJ43CAHE3	43	47.8	52.8	5	69.4	43.2	2	DFT

Curve Characteristics

Fig. 1 - Peak Pulse Power Rating Curve

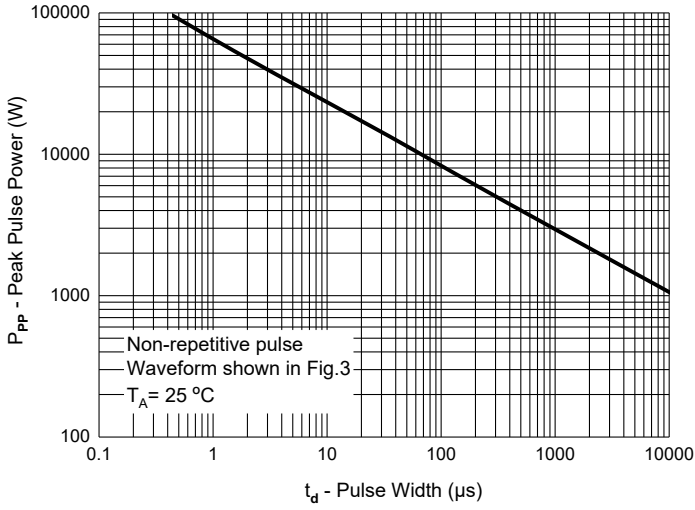


Fig. 2 - Typical Junction Capacitance



Fig. 3 - Pulse Waveform

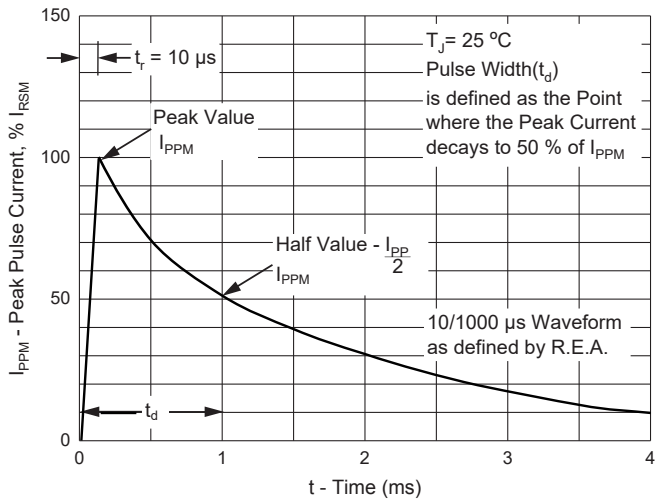


Fig. 4 - Pulse Derating Curve



Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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