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Features

· For Surface Mount Application in Order to Optimize Board Space

E480232

- · Built-in Strain Relief
- · Glass Passivated Junction
- Plastic Package Has Underwrites Laboratory Flammability
- Temperature Coefficient, Typical Value is 0.1%
- Fast Response Time: Typical Less than 1ps from 0V to BV Min
- High Temperature Soldering: 260°C/10 Seconds at Terminals
- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note2) ("P" Suffix Designates Compliant. See Ordering Information)

Mechanical Data

- Polarity: Color Band Denotes Positive End(Cathode) Except Bi-directional Types(Note4)
- Weight: 0.007 ounce, 0.21 gram
- IEC-61000-4-2 ESD 15kV(Air), 8kV(Contact)
- 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
- Typical Thermal Resistance: 15°C/W Junction to Lead
- Typical Thermal Resistance: 75°C/W Junction to Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

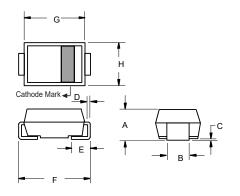
Peak Pulse Power Surge Current on 10/1000µs Waveform	I _{PPM}	See the Table	Note 3
Peak Pulse Power Dissipation on 10/1000µs Waveform	P _{PPM}	1500W	Note 3,4,Fig1
Power Dissipationon infinite heat sink	P_{D}	6.5W	T _L = 75°C.
Peak forward surge current, 8.3 ms single half sine-wave unidirectional only	I _{FSM}	200A	
Maximum instantaneous forward voltage at 100A for unidirectional only	V _F	5V (MAX) 4V (TYP)	

Note:

- 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.3 and derated above TA=25 $^{\circ}$ C per Fig.4.
- 4. Mounted on 8.0mm²copper pads to each terminal.

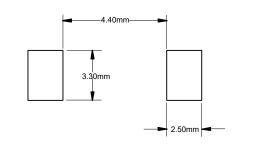
1500 Watt TVS 220 to 350 Volts

SMC (DO-214AB) (LEAD FRAME)



	DIMENSIONS					
DIM	INCHES		M	М	NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.103	2.00	2.62		
В	0.108	0.128	2.75	3.25		
С	0.002	0.008	0.051	0.203		
D	0.006	0.012	0.152	0.305		
Е	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		
Н	0.220	0.245	5.59	6.22		

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

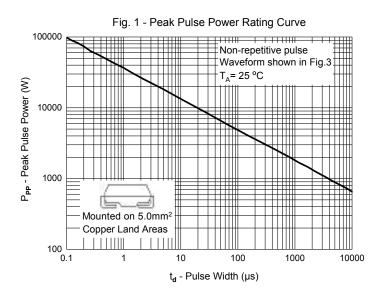
	ICC Number	Reverse Stand-Off Voltage		vn Voltage _R (V)	Test Current	Max. Clamping Voltage @I _{PP}	Peak Pulse Current	Reverse Leakage Current@V _{WM}	Markin	g Code
SMCJ220AL	SMCJ220CAL	220	246.0	272.0	1	356	4.2	1	GHXL	BHXL
SMCJ250AL	SMCJ250CAL	250	279.0	309.0	1	405	3.7	1	GHZL	BHZL
SMCJ	300AL	300	335.0	371.0	1	486	3.1	1	GJ	EL
SMCJ	350AL	350	391.0	432.0	1	567	2.6	1	GJ	GL

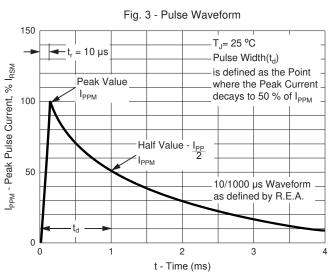
Note:5.Unidirectional and bidirectional available,for bidirectional devices add "C"suffix, eg. SMCJ220CAL.

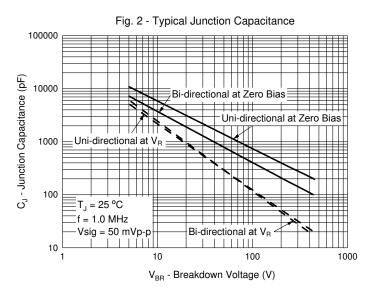
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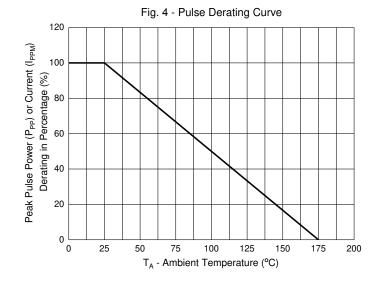


Curve Characteristics











Ordering Information

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

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