PANJIT SEMI CONDUCTOR

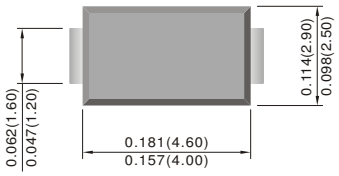
P4SMAJ SERIES

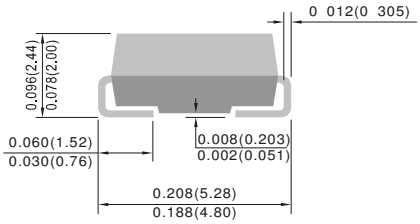
SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR POWER 400 Watts

STAND-OFF VOLTAGE | **5.0 to 220 Volts** | **SMA / DO-214AC** | Unit : inch(mm)

FEATURES

- For surface mounted applications in order to optimize board space.
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- High temperature soldering : 260℃ /10 seconds at terminals
- Lead free in comply with EU RoHS 2002/95/EC directives





MECHANICAL DATA

- Case: JEDEC DO-214AC,Molded plastic over passivated junction
- Terminals: Solder plated,solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard Packaging: 12mm tape (EIA-481)
- Weight: 0.002 ounce, 0.064 gram

DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types P4SMAJ5.0 thru types P4SMAJ220.
Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation on T_A = 25 °C (Notes 1,2,5, Fig.1)	P_{PPM}	400	Watts
Peak Forward Surge Current per Fig.5 (Note 3)	I_{FSM}	40	Amps
Peak Pulse Current on 10/1000μs waveform(Note 1)Fig.2	I_{PPM}	see Table 1	Amps
Typical Thermal Resistance Junction to Air (NOTE 2)	$R_{\theta JA}$	70	°C / W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150	°C

NOTES:
1. Non-repetitive current pulse, per Fig.3 and derated above T_A = 25 °C per Fig. 2.
2. Mounted on 5.0mm² copper pads to each terminal.
3. 8.3ms single half sine-wave, or equivalent square wave, duty cycle = 4 pulses per minutes maximum.
4. Lead temperature at 75°C = T_L.
5. Peak pulse power waveform is 10/1000μS.