



P4SMAJ5.0A-AU ~ P4SMAJ70CA-AU Series

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

Voltage

5~70 V

Power

400 W

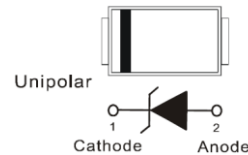
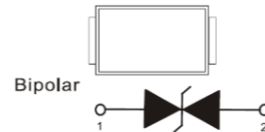
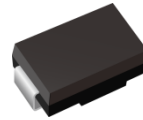
Features

- ISO10605(C=330 pF,R=330Ω): ± 30kV Air, ± 30kV Contact
- HBM ≥ ± 8 kV & CDM ≥ ± 2 kV
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: Molded plastic, SMA
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0024 ounces, 0.068 grams

SMA



Maximum Ratings and Thermal Characteristics (T_A=25 °C unless otherwise noted)

| PARAMETER | SYMBOL | LIMIT | UNITS |
|--|-----------------------------------|-------------|-------|
| Peak Pulse Power Dissipation(tp=10/1000us) | P _{PP} ⁽¹⁾⁽²⁾ | 400 | W |
| Peak Forward Surge Current(8.3ms single half sine-wave) | I _{FSM} | 40 | A |
| Peak Pulse Current on tp=10/1000us waveform ^(Fig.2) | I _{PPM} ⁽¹⁾ | See table 1 | A |
| ISO10605(C=330pF, R=330Ω) (Air) | V _{ESD} | ±30 | kV |
| ISO10605(C=330pF, R=330Ω) (Contact) | | ±30 | |
| Typical Thermal Resistance Junction to Ambient | R _{θJA} ⁽³⁾ | 70 | °C/W |
| Operating Junction Temperature Range | T _J | -55~150 | °C |
| Storage Temperature Range | T _{STG} | -55~150 | °C |



P4SMAJ5.0A-AU ~ P4SMAJ70CA-AU Series

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| Part Number | | V_{RWM} | V_{BR} | | | I_R @ V_{RWM} | | $V_C @ I_{PP}$ | | Marking Code | |
|-----------------------------------|----------------|-----------|----------|------|-------|----------------------|------|----------------|------|-----------------|----|
| | | | Min. | Max. | I_T | uA | | V | A | UNI | BI |
| UNI | BI | V | V | V | mA | UNI | BI | V | A | UNI | BI |
| 400W Transient Voltage Suppressor | | | | | | | | | | | |
| P4SMAJ5.0A-AU | P4SMAJ5.0CA-AU | 5 | 6.4 | 7 | 10 | 800 | 1600 | 9.2 | 43.5 | HE | TE |
| P4SMAJ6.0A-AU | P4SMAJ6.0CA-AU | 6 | 6.67 | 7.37 | 10 | 800 | 1600 | 10.3 | 38.8 | HG | TG |
| P4SMAJ6.5A-AU | P4SMAJ6.5CA-AU | 6.5 | 7.22 | 7.98 | 10 | 500 | 1000 | 11.2 | 35.7 | HK | TK |
| P4SMAJ7.0A-AU | P4SMAJ7.0CA-AU | 7 | 7.78 | 8.6 | 10 | 200 | 400 | 12 | 33.3 | HM | TM |
| P4SMAJ7.5A-AU | P4SMAJ7.5CA-AU | 7.5 | 8.33 | 9.21 | 1 | 100 | 200 | 12.9 | 31 | HP | TP |
| P4SMAJ8.0A-AU | P4SMAJ8.0CA-AU | 8 | 8.89 | 9.83 | 1 | 50 | 100 | 13.6 | 29.4 | HR | TR |
| P4SMAJ8.5A-AU | P4SMAJ8.5CA-AU | 8.5 | 9.44 | 10.4 | 1 | 10 | 20 | 14.4 | 27.7 | HT | TT |
| P4SMAJ9.0A-AU | P4SMAJ9.0CA-AU | 9 | 10 | 11.1 | 1 | 5 | 5 | 15.4 | 26 | HV | TV |
| P4SMAJ10A-AU | P4SMAJ10CA-AU | 10 | 11.1 | 12.3 | 1 | 5 | 5 | 17 | 23.5 | HX | TX |
| P4SMAJ11A-AU | P4SMAJ11CA-AU | 11 | 12.2 | 13.5 | 1 | 1 | 1 | 18.2 | 22 | HZ | TZ |
| P4SMAJ12A-AU | P4SMAJ12CA-AU | 12 | 13.3 | 14.7 | 1 | 1 | 1 | 19.9 | 20.1 | IE | UE |
| P4SMAJ13A-AU | P4SMAJ13CA-AU | 13 | 14.4 | 15.9 | 1 | 1 | 1 | 21.5 | 18.6 | IG | UG |
| P4SMAJ14A-AU | P4SMAJ14CA-AU | 14 | 15.6 | 17.2 | 1 | 1 | 1 | 23.2 | 17.2 | IK | UK |
| P4SMAJ15A-AU | P4SMAJ15CA-AU | 15 | 16.7 | 18.5 | 1 | 1 | 1 | 24.4 | 16.4 | IM | UM |
| P4SMAJ16A-AU | P4SMAJ16CA-AU | 16 | 17.8 | 19.7 | 1 | 1 | 1 | 26 | 15.3 | IP | UP |
| P4SMAJ17A-AU | P4SMAJ17CA-AU | 17 | 18.9 | 20.9 | 1 | 1 | 1 | 27.6 | 14.5 | IR | UR |
| P4SMAJ18A-AU | P4SMAJ18CA-AU | 18 | 20 | 22.1 | 1 | 1 | 1 | 29.2 | 13.7 | IT | UT |
| P4SMAJ20A-AU | P4SMAJ20CA-AU | 20 | 22.2 | 24.5 | 1 | 1 | 1 | 32.4 | 12.3 | IV | UV |
| P4SMAJ22A-AU | P4SMAJ22CA-AU | 22 | 24.4 | 26.9 | 1 | 1 | 1 | 35.5 | 11.2 | IX | UX |
| P4SMAJ24A-AU | P4SMAJ24CA-AU | 24 | 26.7 | 29.5 | 1 | 1 | 1 | 38.9 | 10.3 | IZ | UZ |
| P4SMAJ26A-AU | P4SMAJ26CA-AU | 26 | 28.9 | 31.9 | 1 | 1 | 1 | 42.1 | 9.5 | JE | VE |
| P4SMAJ28A-AU | P4SMAJ28CA-AU | 28 | 31.1 | 34.4 | 1 | 1 | 1 | 45.4 | 8.8 | JG | VG |
| P4SMAJ30A-AU | P4SMAJ30CA-AU | 30 | 33.3 | 36.8 | 1 | 1 | 1 | 48.4 | 8.3 | JK | VK |
| P4SMAJ33A-AU | P4SMAJ33CA-AU | 33 | 36.7 | 40.6 | 1 | 1 | 1 | 53.3 | 7.5 | JM | VM |
| P4SMAJ36A-AU | P4SMAJ36CA-AU | 36 | 40 | 44.2 | 1 | 1 | 1 | 58.1 | 6.9 | JP | VP |
| P4SMAJ40A-AU | P4SMAJ40CA-AU | 40 | 44.4 | 49.1 | 1 | 1 | 1 | 64.5 | 6.2 | JR | VR |
| P4SMAJ43A-AU | P4SMAJ43CA-AU | 43 | 47.8 | 52.8 | 1 | 1 | 1 | 69.4 | 5.7 | JT | VT |
| P4SMAJ45A-AU | P4SMAJ45CA-AU | 45 | 50 | 55.3 | 1 | 1 | 1 | 72.7 | 5.5 | JV | VV |
| P4SMAJ48A-AU | P4SMAJ48CA-AU | 48 | 53.3 | 58.9 | 1 | 1 | 1 | 77.4 | 5.2 | JX | VX |
| P4SMAJ51A-AU | P4SMAJ51CA-AU | 51 | 56.7 | 62.7 | 1 | 1 | 1 | 82.4 | 4.9 | JZ | VZ |



P4SMAJ5.0A-AU ~ P4SMAJ70CA-AU Series

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

| Part Number | | V_{RWM} | V_{BR} | | | I_R @ V_{RWM} | | $V_C @ I_{PP}$ | | Marking Code | |
|-----------------------------------|---------------|-----------|----------|------|-------|----------------------|----|----------------|-----|-----------------|----|
| | | | Min. | Max. | I_T | uA | | | | | |
| UNI | BI | V | V | V | mA | UNI | BI | V | A | UNI | BI |
| 400W Transient Voltage Suppressor | | | | | | | | | | | |
| P4SMAJ54A-AU | P4SMAJ54CA-AU | 54 | 60 | 66.3 | 1 | 1 | 1 | 87.1 | 4.6 | RE | WE |
| P4SMAJ58A-AU | P4SMAJ58CA-AU | 58 | 64.4 | 71.2 | 1 | 1 | 1 | 93.6 | 4.3 | RG | WG |
| P4SMAJ60A-AU | P4SMAJ60CA-AU | 60 | 66.7 | 73.7 | 1 | 1 | 1 | 96.8 | 4.1 | RK | WK |
| P4SMAJ64A-AU | P4SMAJ64CA-AU | 64 | 71.1 | 78.6 | 1 | 1 | 1 | 103 | 3.9 | RM | WM |
| P4SMAJ70A-AU | P4SMAJ70CA-AU | 70 | 77.8 | 86 | 1 | 1 | 1 | 113 | 3.5 | RP | WP |

Note:

1. Non-repetitive current pulse, per Fig.3 and derated above $T_A=25^\circ\text{C}$ per Fig.2
2. Mounted on 5mm^2 copper pads to each terminal
3. Mounted on a FR4 PCB, single-sided copper, mini pad



P4SMAJ5.0A-AU ~ P4SMAJ70CA-AU Series

TYPICAL CHARACTERISTIC CURVES

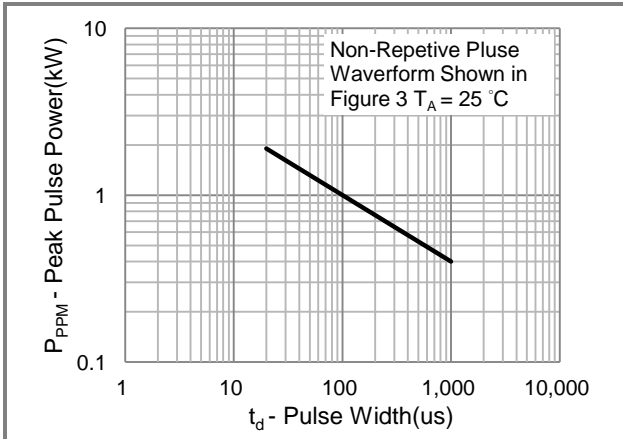


Fig.1 Pulse Power Rating Curve

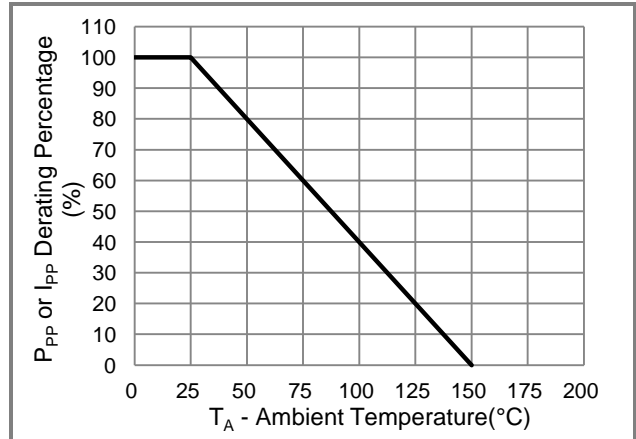


Fig.2 Derating Curve

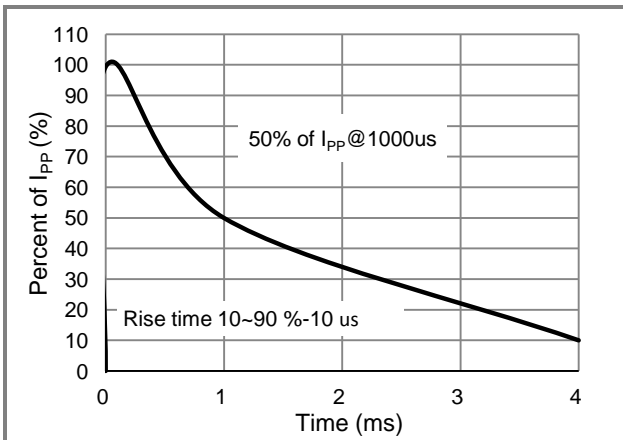


Fig.3 10/1000us Pulse Waveform

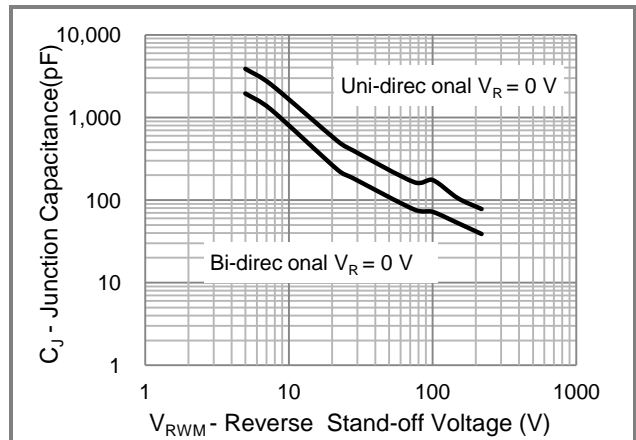


Fig.4 Typical Capacitance

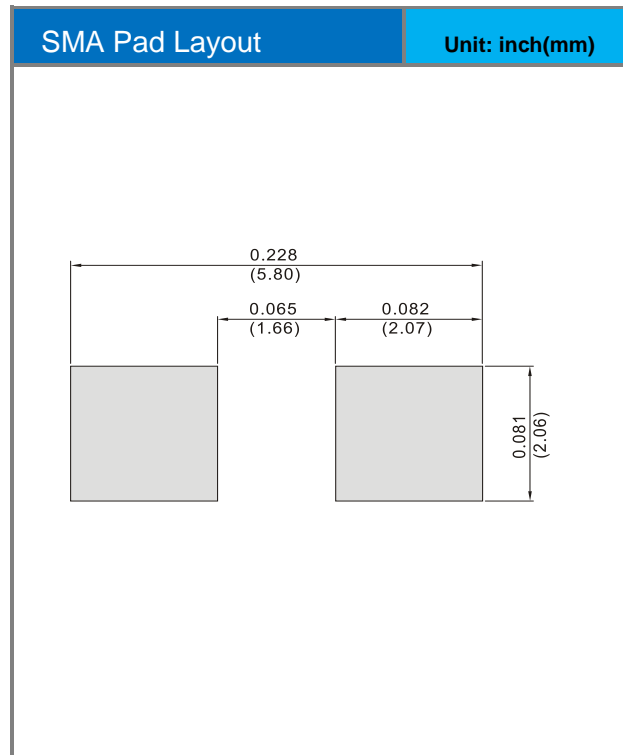
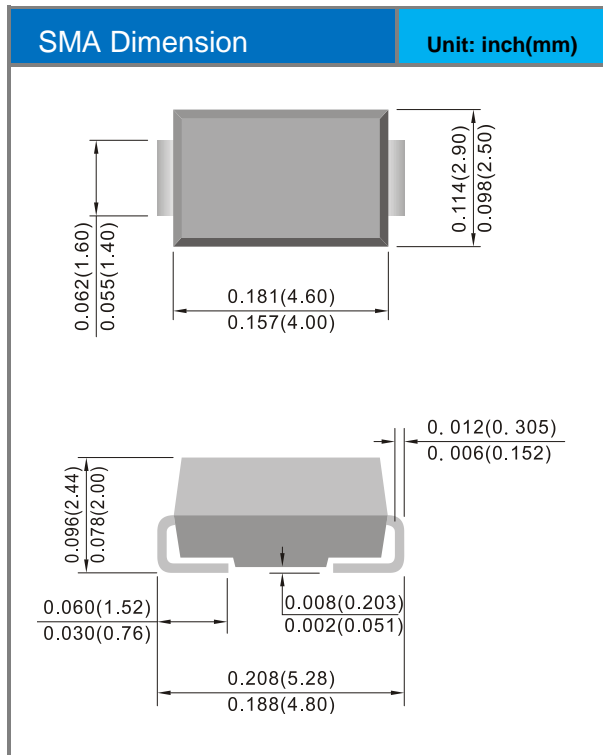


P4SMAJ5.0A-AU ~ P4SMAJ70CA-AU Series

Part No Packing Code Version

| Part No Packing Code | Package Type | Packing Type | Marking | Version |
|------------------------|--------------|---------------------|-----------|--------------|
| P4SMAJxxxx-AU_R2_000A1 | SMA | 7.5K pcs / 13" reel | See Table | Halogen free |

Packaging Information & Mounting Pad Layout





P4SMAJ5.0A-AU ~ P4SMAJ70CA-AU Series

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)