



PJSOT03C-05~PJSOT36C-05

STANDARD CAPACITANCE TVS ARRAY

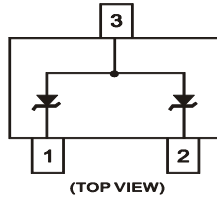
VOLTAGE 3 ~ 36 Volt **POWER** 500 Watt

FEATURES

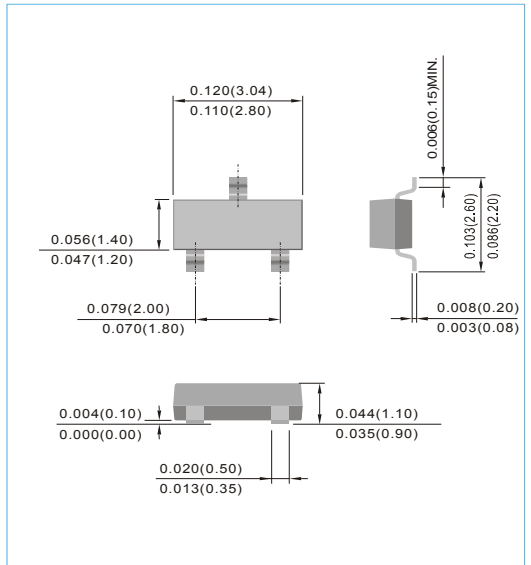
- 500 Watts Peak Pulse Power per Line ($t_p=8/20\mu s$)
- Low Clamping Voltage
- Available in Multiple Voltage Types Ranging from 3V and 36V
- Unidirectional & Bidirectional Configurations
- ESD IEC-61000-4-2 Air $\pm 30kV$, Contact $\pm 30kV$
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOT-23
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight: 0.0003 ounce, 0.0084 gram



SOT-23 Unit : inch(mm)



DEVICE CHARACTERISTICS

Ratings at 25°C unless otherwise specified.

| Parameter | Symbol | Value | Units |
|--|-----------|----------------------|-------|
| Forward Voltage@ 100mA, 300μs-Square Wave | V_F | 1.5 | Volts |
| Peak Pulse Power ($t_p=8/20\mu s$) | P_{PP} | 500 | Watts |
| ESD IEC-61000-4-2 (Air) ESD IEC-61000-4-2 (Contact) | V_{ESD} | ± 30 ± 30 | kV |
| Operating Temperature Range | T_J | -50 to 150 | °C |
| Storage Temperature Range | T_{STG} | -50 to 150 | °C |

| Part Number | Reverse Stand-off Voltage | Minum Breakdown Voltage | Max Clamping Voltage @ 8/20 μsec | Peak Pulse Current 8/20 μsec | Maximum Leakage Current | Off-State Capacitance, 1MHz Zero dc Bias Note 1 | Marking Code |
|-------------|---------------------------|-------------------------|----------------------------------|------------------------------|-------------------------|---|--------------|
| | V_{RWM} | @ 1mA V_{BR} | $V_{CL} @ I_{PP}$ | I_{PP} | @ $V_{RWM} I_D$ | Cd | |
| | Max. V | V | V | Max. A | μA | Max. pF | |
| PJSOT03C-05 | 3 | 4 | 6.5 | 43 | 125 | 500 | 1EC |
| PJSOT05C-05 | 5 | 6 | 9.8 | 42 | 20 | 550 | 2EC |
| PJSOT08C-05 | 8 | 8.5 | 13.4 | 34 | 10 | 250 | 3EC |
| PJSOT12C-05 | 12 | 13.3 | 19 | 21 | 2 | 150 | 4EC |
| PJSOT15C-05 | 15 | 16.7 | 24 | 17 | 1 | 100 | 5EC |
| PJSOT24C-05 | 24 | 26.7 | 43 | 12 | 1 | 88 | 6EC |
| PJSOT36C-05 | 36 | 40 | 75 | 9 | 1 | 85 | 7EC |

Note 1: Capacitance is measured between Pin 3 and either Pin 1 or 2 for the PJSOT03-05C and PJSOT36C-05 individual capacitance is measured between Pin 1 to Pin 3 or Pin2 to Pin 3.



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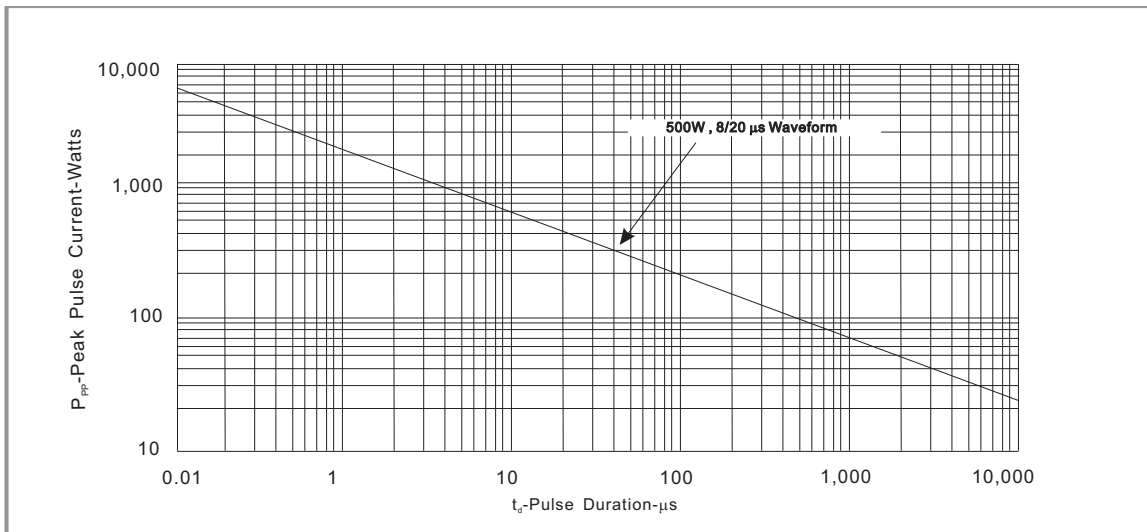


FIG.1- PEAK PULSE POWER VS PULSE TIME

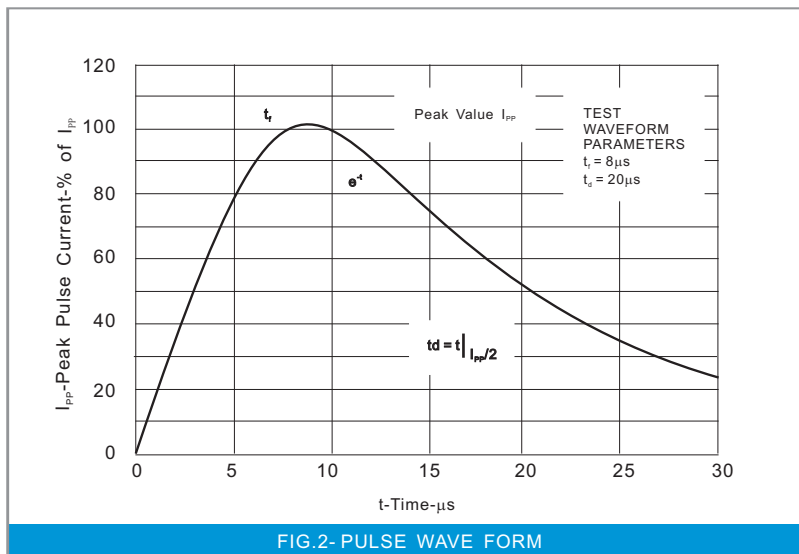


FIG.2- PULSE WAVE FORM

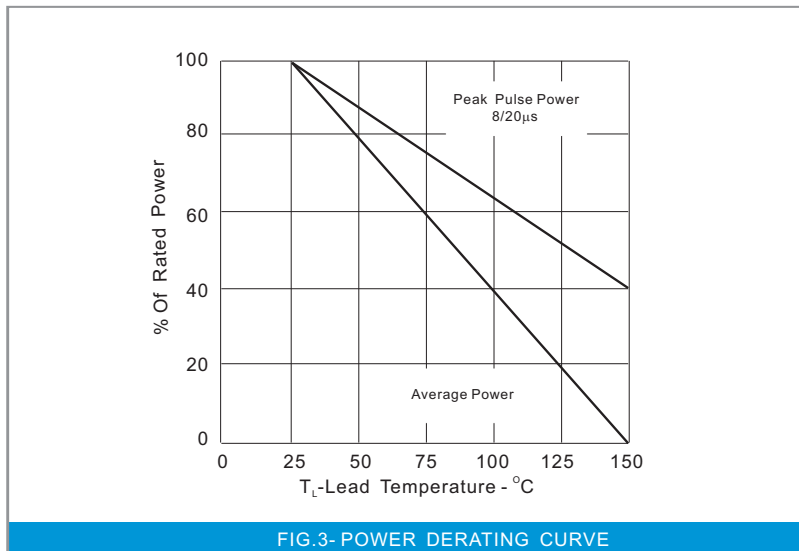
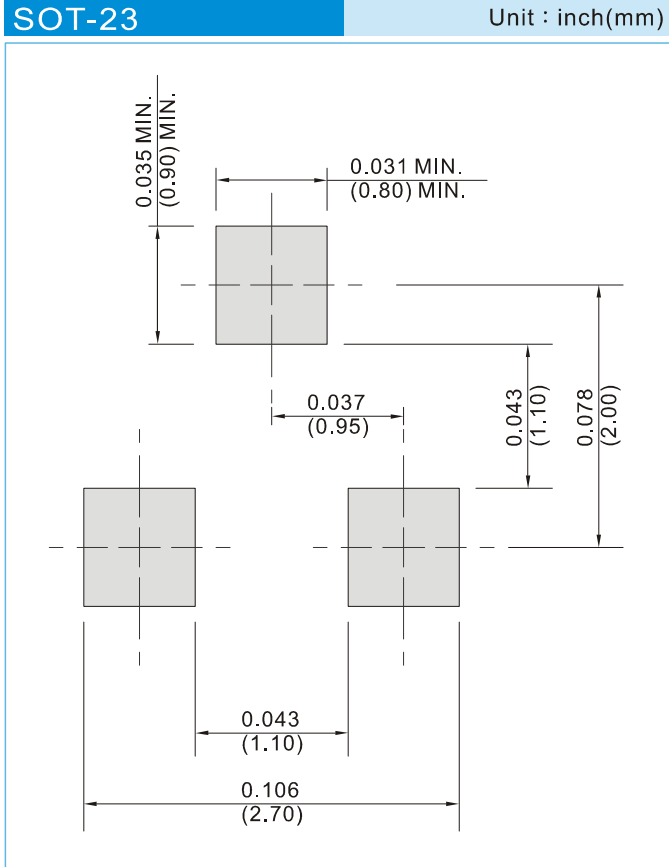


FIG.3- POWER DERATING CURVE



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 12K per 13" plastic Reel
T/R - 3K per 7" plastic Reel



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Part No_packing code_Version

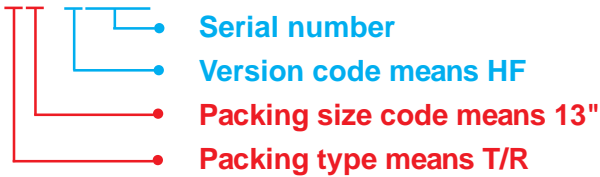
PJSOT03C-05_R1_00001

PJSOT03C-05_R2_00001

For example :

RB500V-40_R2_00001

Part No.



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |



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