



PJSOT03~PJSOT36

STANDARD CAPACITANCE TVS ARRAY

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

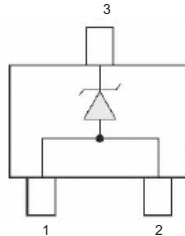
FEATURES

- 500 Watts Peak Pulse Power per Line ($t_p=8/20 \mu s$)
- Low Clamping Voltage
- Available for working Voltage Ranging from 3V and 36V
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

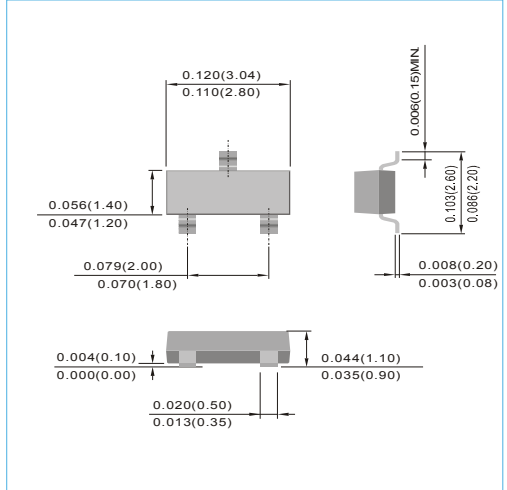
MECHANICAL DATA

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

UNIDIRECTIONAL



SOT-23 Unit : inch(mm)



DEVICE CHARACTERISTICS

Ratings at 25°C unless otherwise specified.

| PARAMETER | Symbol | VALUE | Units |
|--|------------------|-------------|-------|
| Peak Pulse Power ($t_p=8/20 \mu s$) | P _{PP} | 500 | Watts |
| Operating Temperature | T _J | -50 to +150 | °C |
| Storage Temperature | T _{STG} | -50 to +150 | °C |
| Forward Voltage@ 100mA,300μs-Square Wave | V _F | 1.5 | Volts |

| 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 | Marking Code |
|-------------|---------------------------|-------------------------|-----------------------------------|------------------------------|----------------------------------|--|--------------|
| | V _{RWM} | @1mA V _{BR} | V _{CL} @ I _{PP} | I _{PP} | @V _{RWM} I _D | C _d | |
| | Max. V | V | V | Max. A | μA | Max. pF | |
| PJSOT03 | 3 | 4 | 6.5 | 43 | 125 | 850 | 1A |
| PJSOT05 | 5 | 6 | 9.8 | 42 | 20 | 550 | 2A |
| PJSOT08 | 8 | 8.5 | 13.4 | 34 | 10 | 360 | 3A |
| PJSOT12 | 12 | 13.3 | 19 | 21 | 2 | 200 | 4A |
| PJSOT15 | 15 | 16.7 | 24 | 17 | 1 | 170 | 5A |
| PJSOT24 | 24 | 26.7 | 43 | 12 | 1 | 150 | 6A |
| PJSOT36 | 36 | 40 | 51 | 9 | 1 | 80 | SA |



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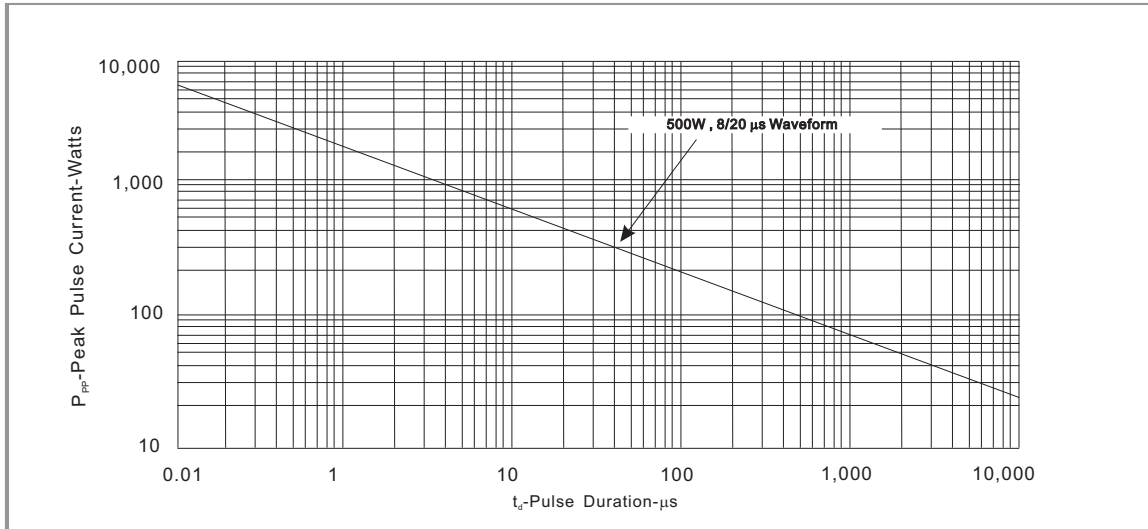


FIG.1- PEAK PULSE POWER VS PULSE TIME

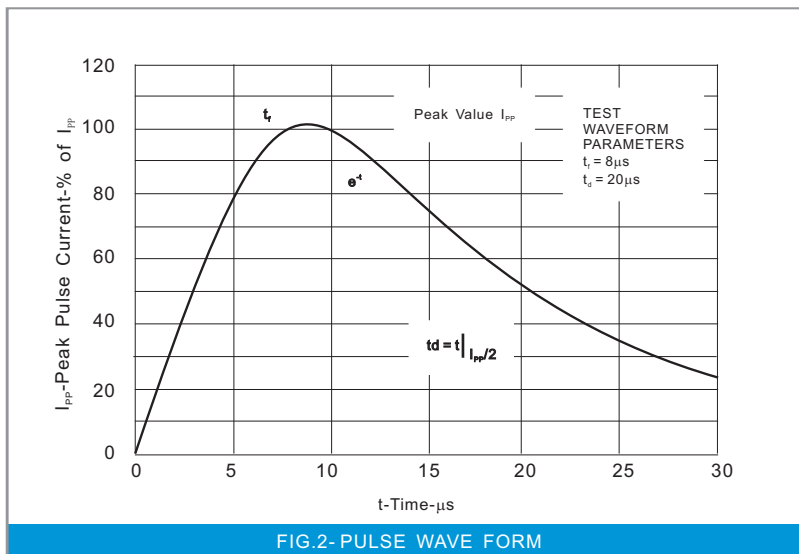


FIG.2- PULSE WAVE FORM

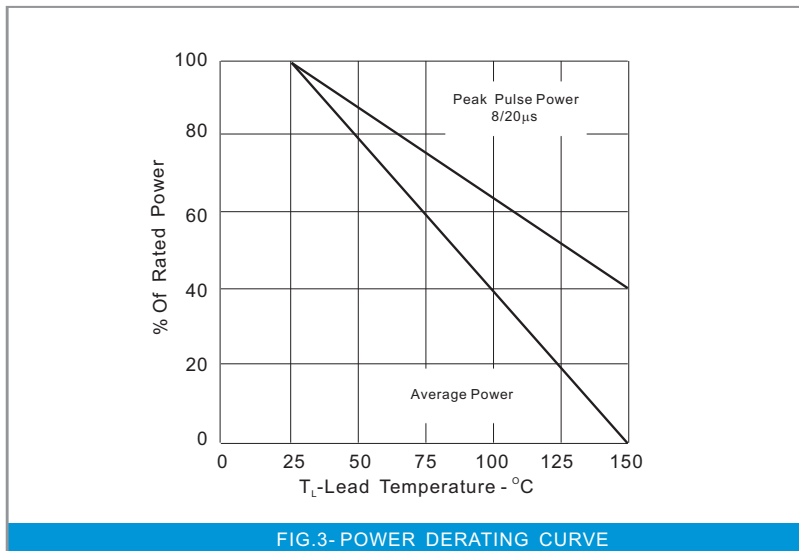
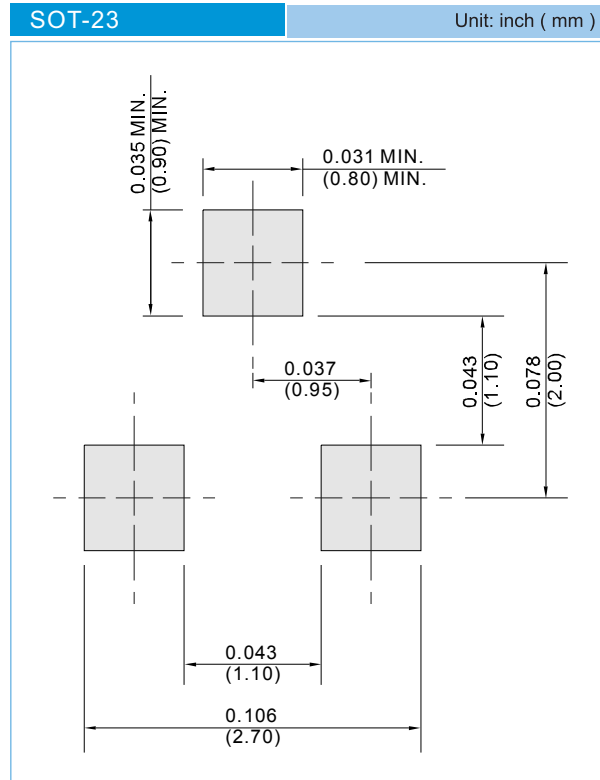


FIG.3- POWER DERATING CURVE



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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

PJSOT03_R1_00001

PJSOT03_R2_00001

For example :

RB500V-40_R2_00001



| 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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