



PJSOT03C-05~PJSOT36C-05

STANDARD CAPACITANCE TVS ARRAY

VOLTAGE 3 ~ 36 Volts **POWER** 500 Watts

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
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- IEC61000-4-2 ESD 15kV air, 8kV Contact Compliance

MECHANICAL DATA

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

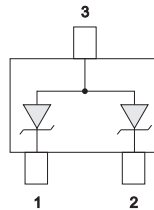
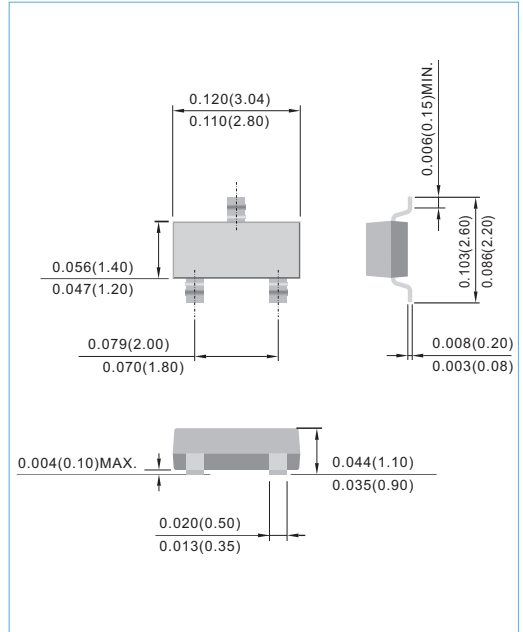


Fig.25

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 °C to 150 °C | °C |
| Storage Temperature | T_{STG} | -50 °C to 150 °C | °C |
| Forward Voltage@ 100mA,300μs-Square Wave | V_F | 1.5 | Volts |

| Part Number | Reverse Stand-off Voltage | Minmum 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 | 51 | 9 | 1 | 80 | 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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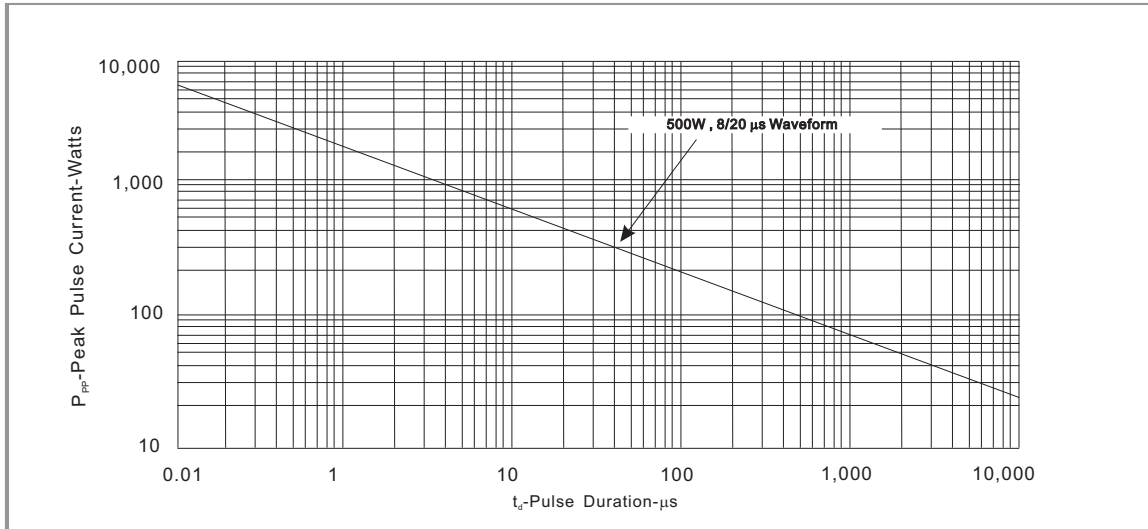


FIG.1- PEAK PULSE POWER VS PULSE TIME

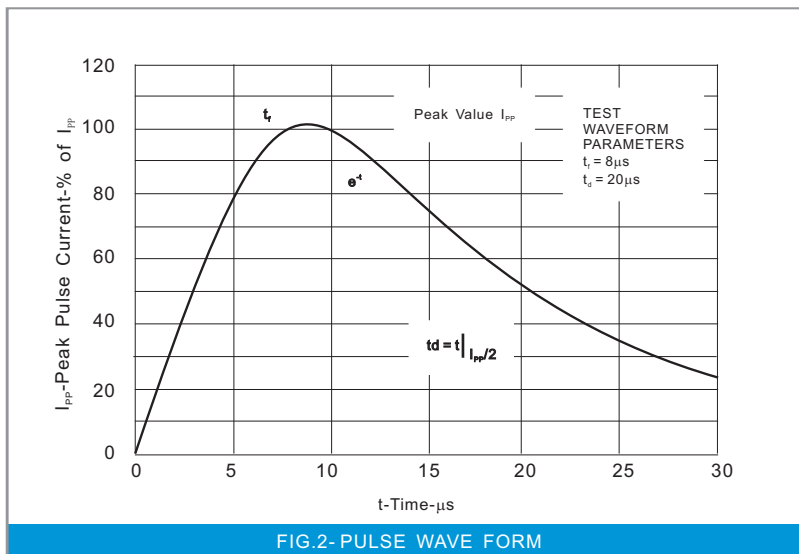


FIG.2- PULSE WAVE FORM

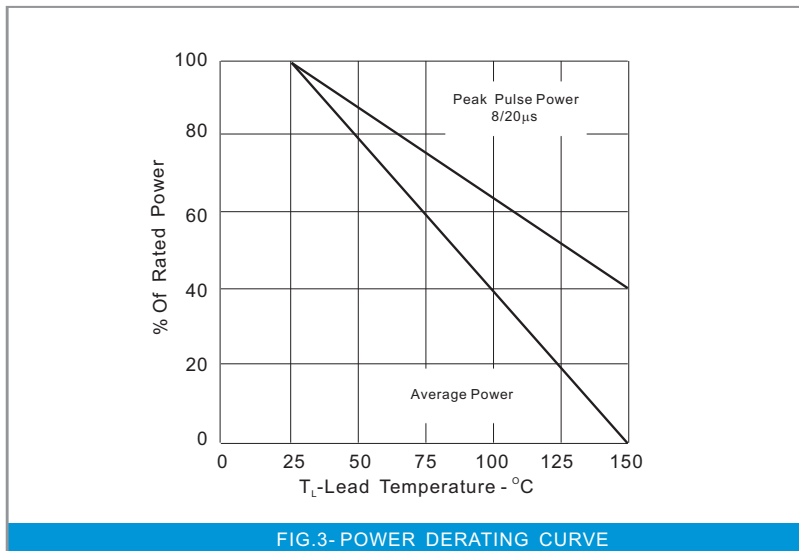
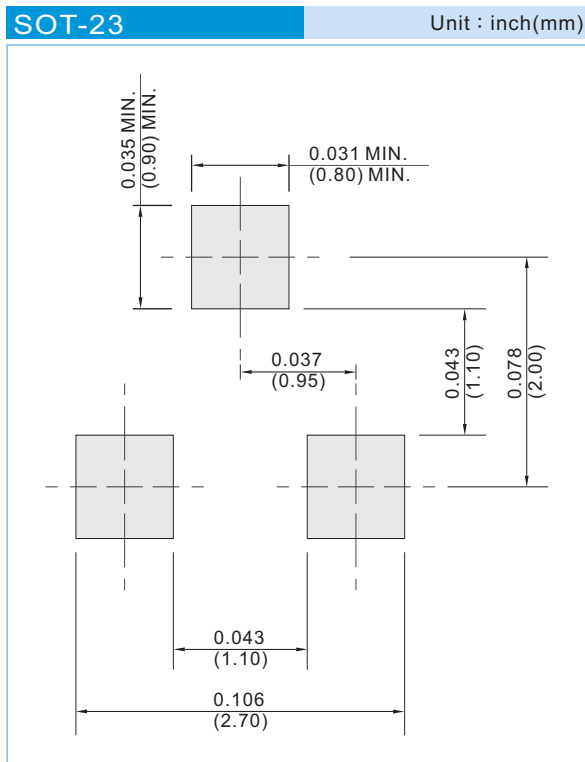


FIG.3- POWER DERATING CURVE



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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

LEGAL STATEMENT

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