



PJSOT03~PJSOT36C SERIES

STANDARD CAPACITANCE TVS ARRAY

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

SOT-23

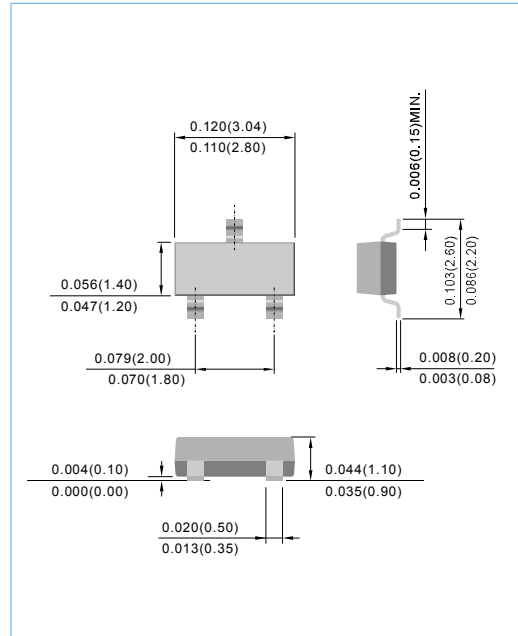
Unit : inch(mm)

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 to 36V
- Unidirectional & Bidirectional Configurations
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

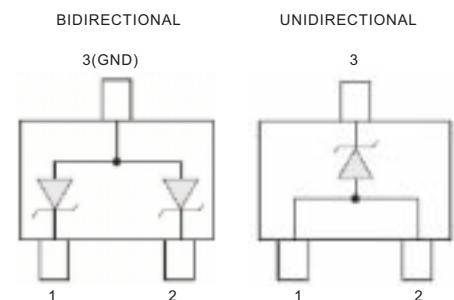
- Case: SOT-23
- Terminals : Solderable per MIL-STD-750,Method 208
- Weight: 0.0003 ounces, 0.0084 grams



DEVICE CHARACTERISTICS

Ratings at 25°C unless otherwise specified.

PARAMETER	Symbol	VALUE	Units
Peak Pulse Power ($t_p=8/20 \mu s$)	PPP	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





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Part Number	Reverse Stand-off Voltage	Minmum Breakdown Voltage	Max Clamping Voltage @ 8/20 μ sec	Peak Pulse Current 8/20 μ sec	Maximum Leakage Current	Off-State Capacitance, 1MHz Zero dc Bias Note 1	Marking Code	Circuit Figure
	V_{RWM}	@1mA V_{BR}	V_{CL} @ I_{PP}	I_{PP}	@ V_{RWM} I_D	Cd		
	Max. V	V	V	Max. A	μ A	Max. pF		
PJSOT03	3	4	6.5	43	125	500	1A	UNIDIRECTIONAL
PJSOT05	5	6	9.8	42	20	350	2A	
PJSOT08	8	8.5	13.4	34	10	250	3A	
PJSOT12	12	13.3	19	21	2	150	4A	
PJSOT15	15	16.7	24	17	1	100	5A	
PJSOT24	24	26.7	43	12	1	88	6A	
PJSOT36	36	40	51	9	1	80	7A	
PJSOT03C	3	4	6.5	43	125	500	1AC	BIDIRECTIONAL
PJSOT05C	5	6	9.8	42	20	350	2AC	
PJSOT08C	8	8.5	13.4	34	10	250	3AC	
PJSOT12C	12	13.3	19	21	2	150	4AC	
PJSOT15C	15	16.7	24	17	1	100	5AC	
PJSOT24C	24	26.7	43	12	1	88	6AC	
PJSOT36C	36	40	51	9	1	80	7AC	

Note 1: Capacitance is measured between Pin 3 and either Pin 1 or 2 for the PJSOT03 Series for the dual PJSOT03C Series individual capacitance is measured between Pin 1 to Pin 3 or Pin2 to Pin 3 For bi-directional mode (not shown capacitance) of the PJSOT03C Series , capacitance is measured between Pin 1 to Pin 2.



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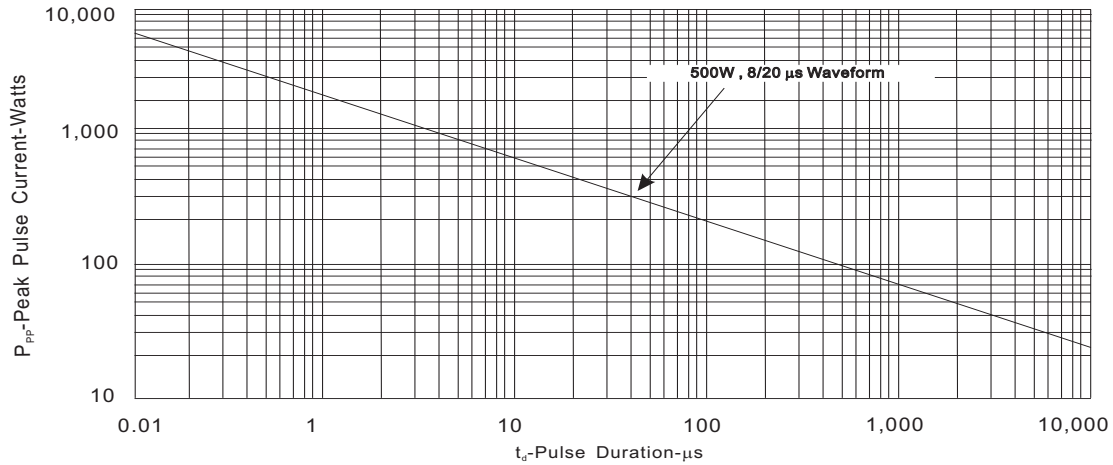


FIG.1- PEAK PULSE POWER VS PULSE TIME

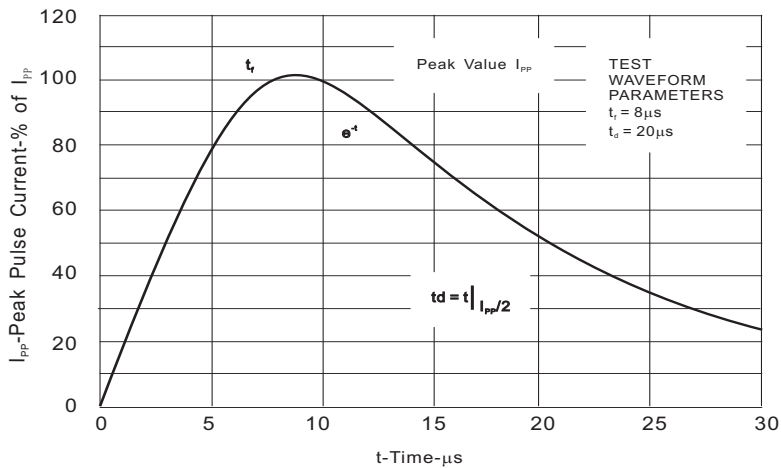


FIG.2- PULSE WAVE FORM

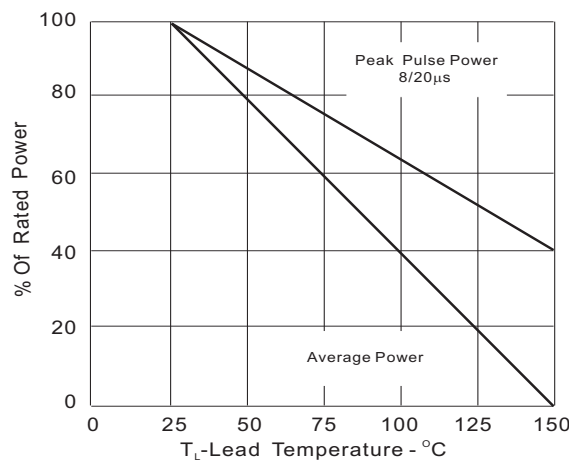


FIG.3- POWER DERATING CURVE

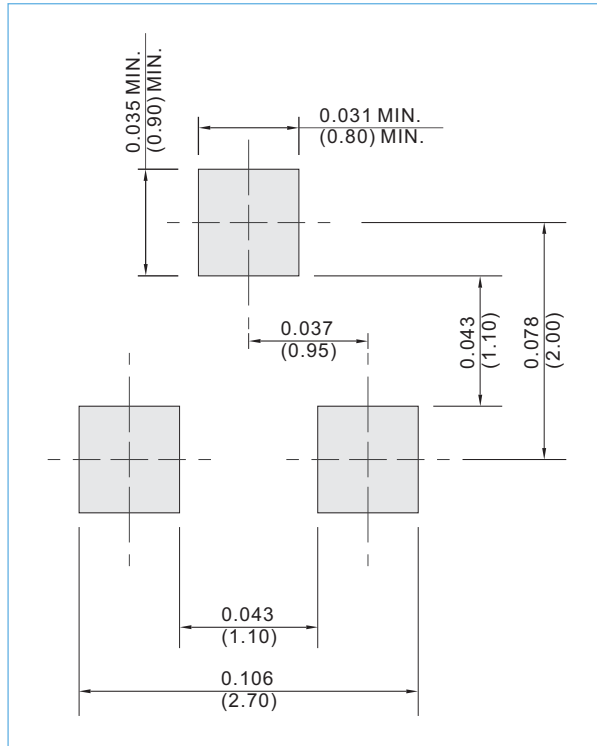


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MOUNTING PAD LAYOUT

SOT-23

Unit : inch(mm)



ORDER INFORMATION

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



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