



# PJSOT03~PJSOT36

## STANDARD CAPACITANCE TVS ARRAY

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

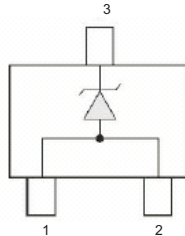
### FEATURES

- 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)

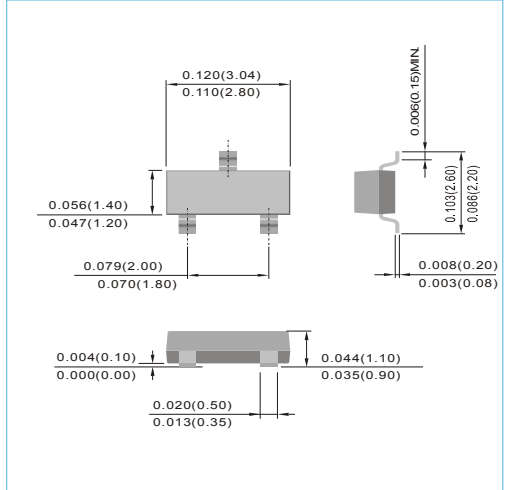
### MECHANICAL DATA

- 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 <sub>PP</sub>	500	Watts
Operating Temperature	T <sub>J</sub>	-50 to +150	°C
Storage Temperature	T <sub>STG</sub>	-50 to +150	°C
Forward Voltage@ 100mA,300μs-Square Wave	V <sub>F</sub>	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 <sub>RWM</sub>	@1mA V <sub>BR</sub>	V <sub>CL</sub> @ I <sub>PP</sub>	I <sub>PP</sub>	@V <sub>RWM</sub> I <sub>D</sub>	C <sub>d</sub>	
	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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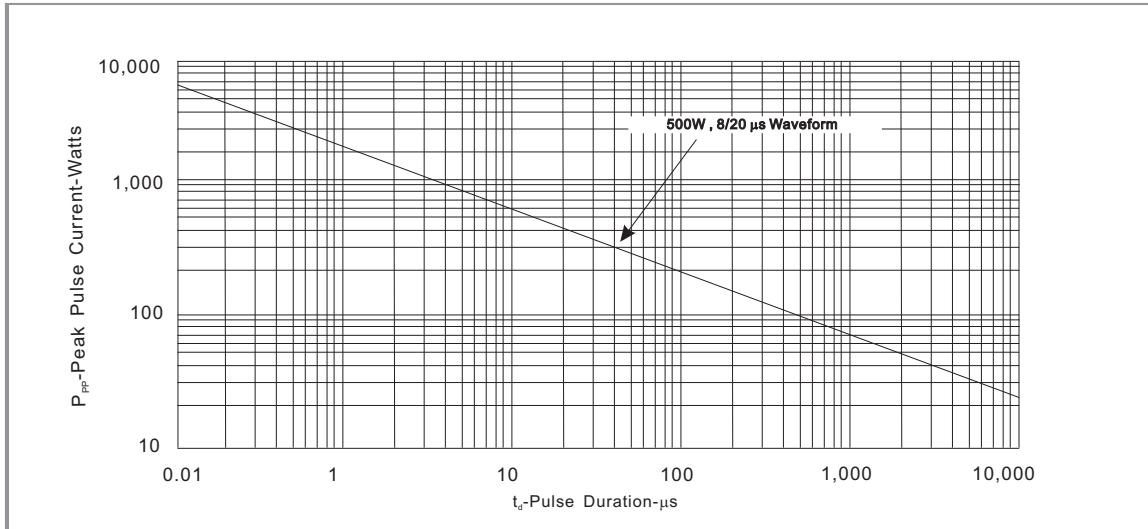


FIG.1- PEAK PULSE POWER VS PULSE TIME

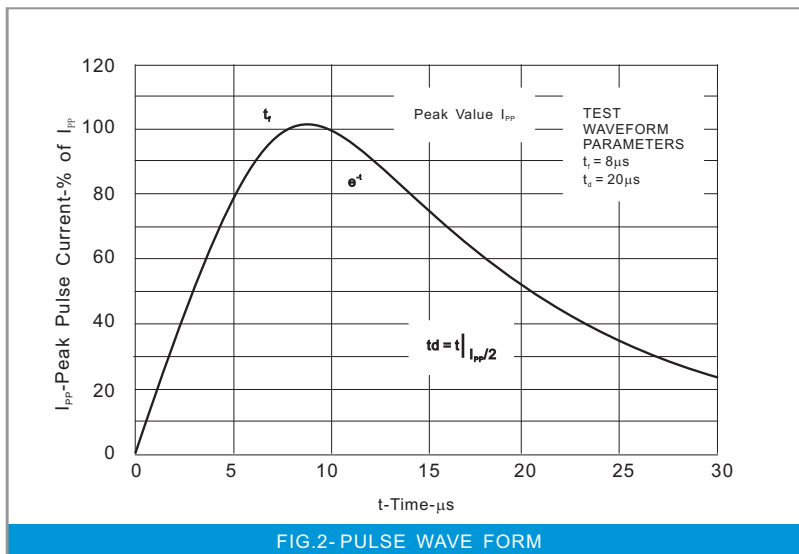


FIG.2- PULSE WAVE FORM

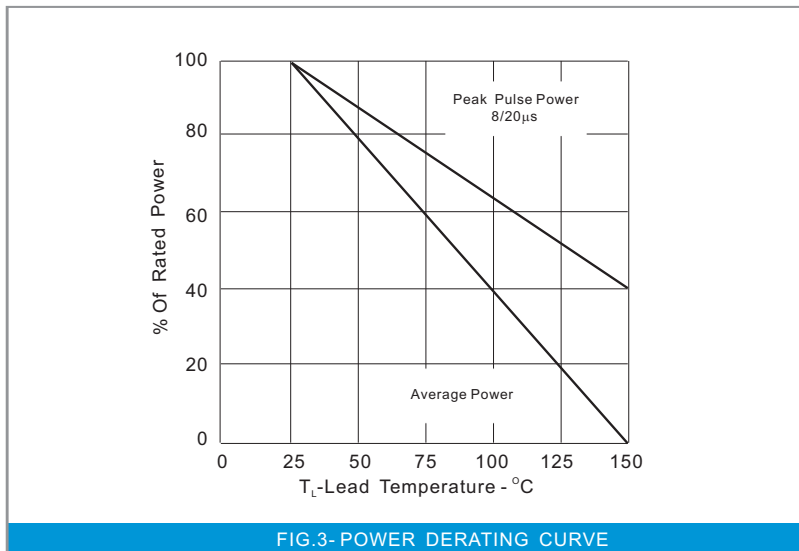
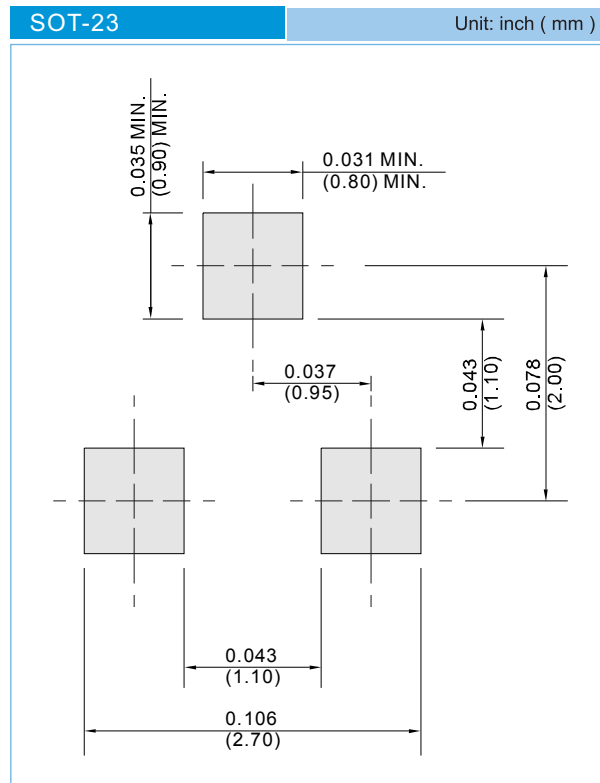


FIG.3- POWER DERATING CURVE



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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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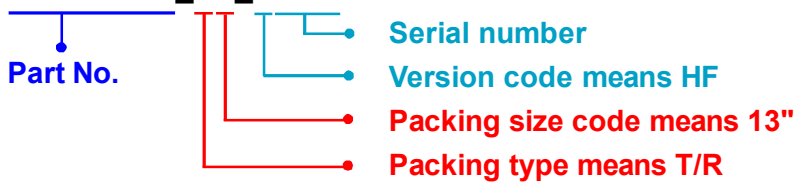
## Part No\_packing code\_Version

PJSOT03\_R1\_00001

PJSOT03\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



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



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