PJSOT03C-05~PJSOT36C-05

STANDARD CAPACITANCE TVS ARRAY

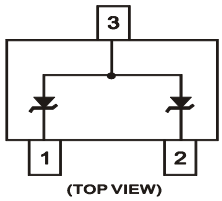
VOLTAGE 3 ~ 36 Volt **POWER** 500 Watt

FEATURES

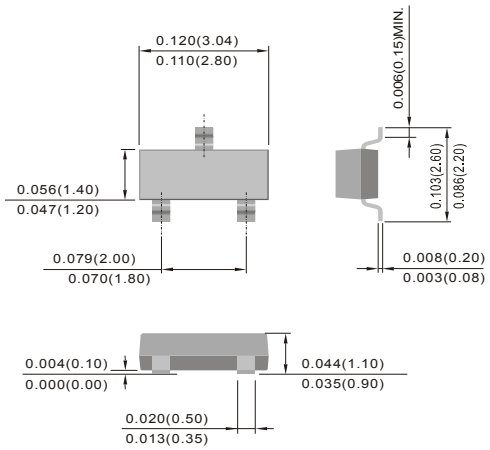
- 500 Watts Peak Pulse Power per Line (tp=8/20μs)
- Low Clampoing Voltage
- Available in Multiple Voltage Types Ranging from 3V and 36V
- Unidirectional & Bidirectional Configurations
- ESD IEC-61000-4-2 Air ± 30kV, Contact ± 30kV
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

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



SOT-23 Unit : inch(mm)



DEVICE CHATACTERISTICS

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 (tp=8/20μs)	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	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	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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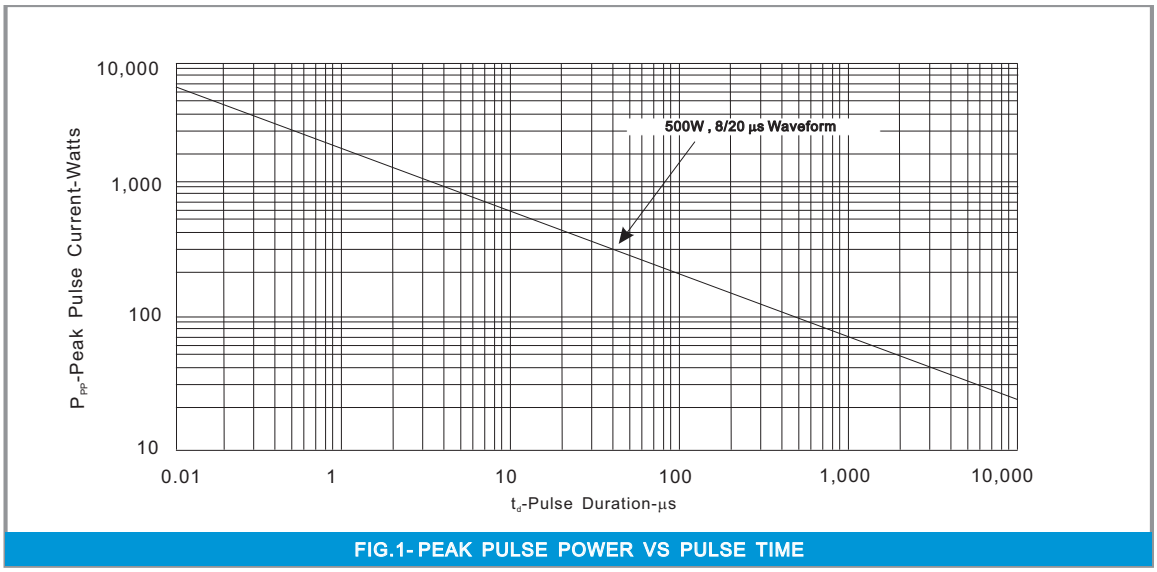


FIG.1- PEAK PULSE POWER VS PULSE TIME

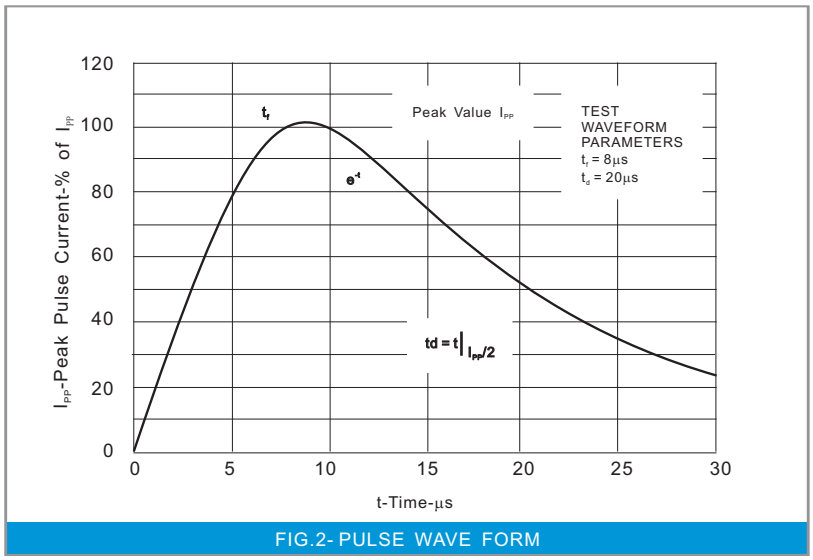


FIG.2- PULSE WAVE FORM

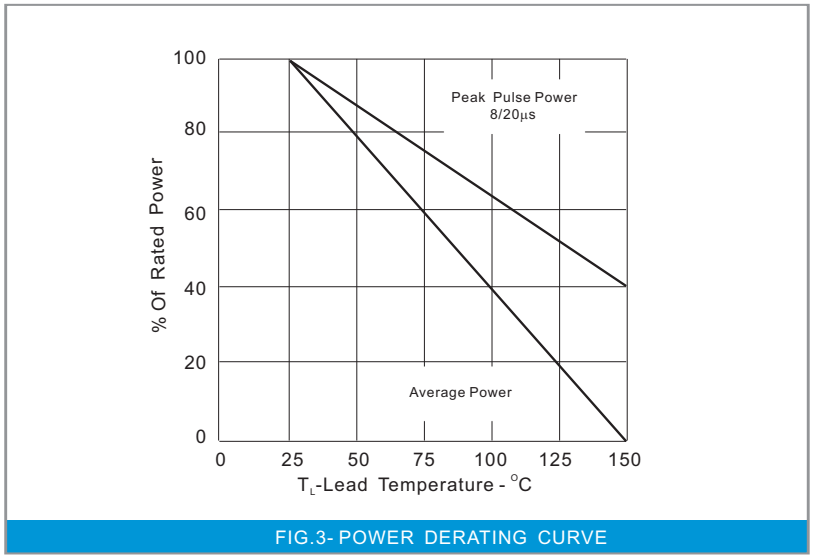
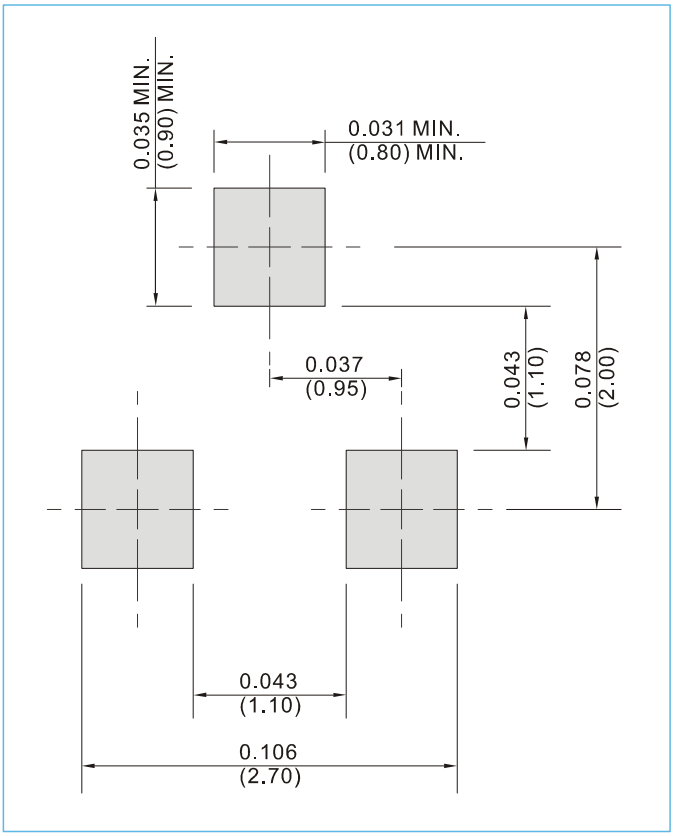


FIG.3- POWER DERATING CURVE

PJSOT03C-05~PJSOT36C-05

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

PJSOT03C-05~PJSOT36C-05

Part No_packing code_Version

PJSOT03C-05_R1_00001

PJSOT03C-05_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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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