

POWER

**STANDARD CAPACITANCE TVS ARRAY** 3~36 Volt

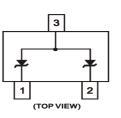
#### FEATURES

VOLTAGE

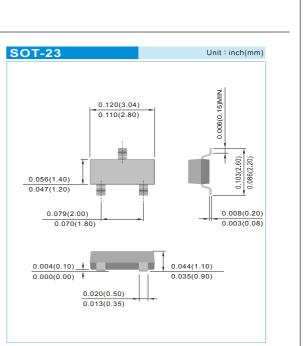
- 500 Watts Peak Pulse Power per Line (tp=8/20µs)
- · Low Clamping Voltage
- Available in Multiple Voltage Types Ranging from 3V and 36V
- Unidirectional & Bidirectional Configurations
- ESD IEC-61000-4-2 Air ± 30kV, Contact ± 30kV
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **MECHANICAL DATA**

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



500 Watt



#### **DEVICE CHATACTERISTICS**

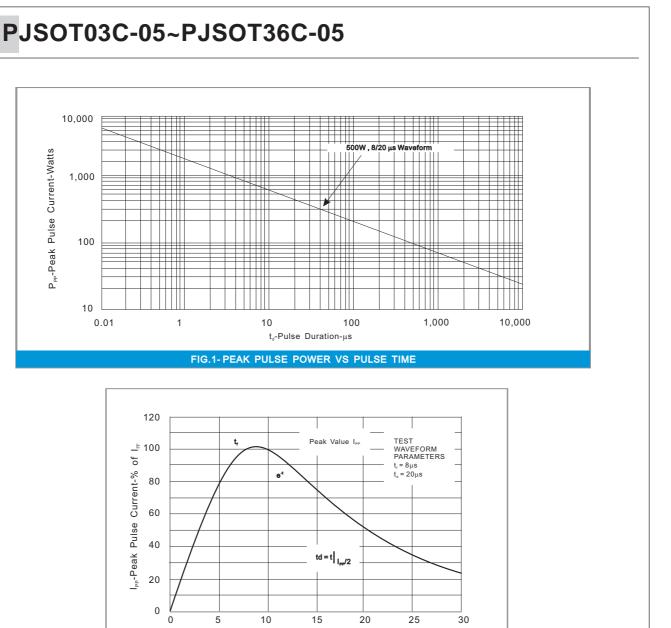
Ratings at 25°C unless otherwise specified.

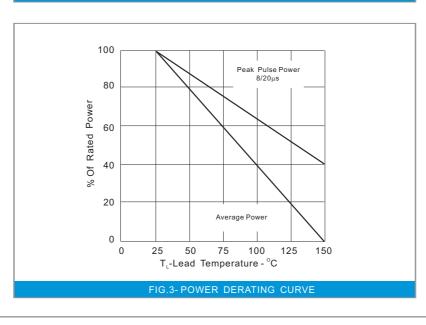
Parameter	Symbol	Value	Units
Forward Voltage@ 100mA, 300µs-Square Wave	VF	1.5	Volts
Peak Pulse Power ( tp=8/20µs)	Ррр	500	Watts
ESD IEC-61000-4-2 (Air) ESD IEC-61000-4-2 (Contact)	Vesd	<u>+</u> 30 <u>+</u> 30	kV
Operating Temperature Range	ТJ	-50 to 150	°C
Storage Temperature Range	Тѕтс	-50 to 150	°C

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	
	Vrwm	@1mA Vbr	VCL@IPP IPP @VRWMID		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.





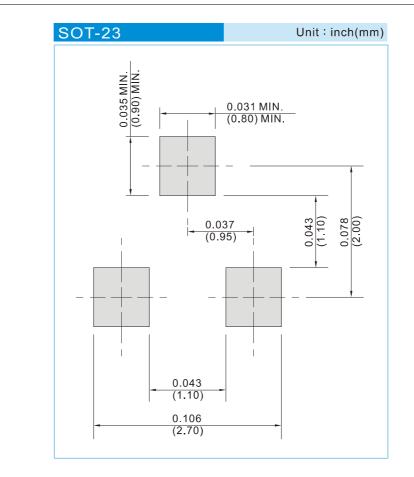


t-Time-µs

1



#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

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



### Part No\_packing code\_Version

PJSOT03C-05\_R1\_00001 PJSOT03C-05\_R2\_00001

### For example :

RB500V-40\_R2\_00001



- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX		
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)	A	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	т	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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