



#### STANDARD CAPACITANCE TVS ARRAY

VOLTAGE 3 ~ 36 Volt POWER

#### **FEATURES**

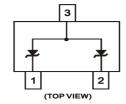
- 500 Watts Peak Pulse Power per Line (tp=8/20µs)
- · Low Clamping Voltage
- Available in Multiple Voltage Types Ranging from 3V and 36V
- · Unidirectional & Bidirectional Configurations
- ESD IEC-61000-4-2 Air ± 30kV, Contact ± 30kV
- Lead free in compliance with EU RoHS 2.0
- Green molding compound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

#### **MECHANICAL DATA**

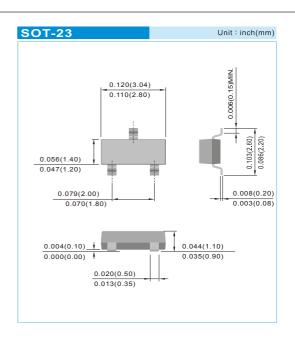
• Case: SOT-23

• 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.

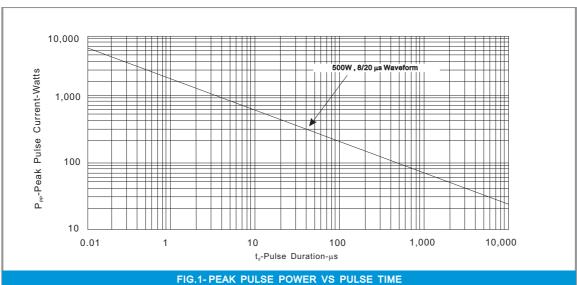
Parameter	Symbol	Value	Units
Forward Voltage@ 100mA, 300µs-Square Wave	VF	1.5	Volts
Peak Pulse Power ( tp=8/20μs)	Ppp	500	Watts
ESD IEC-61000-4-2 (Air) ESD IEC-61000-4-2 (Contact)	VESD	±30 ±30	kV
Operating Temperature Range	TJ	-50 to 150	°C
Storage Temperature Range	Тѕтс	-50 to 150	°C

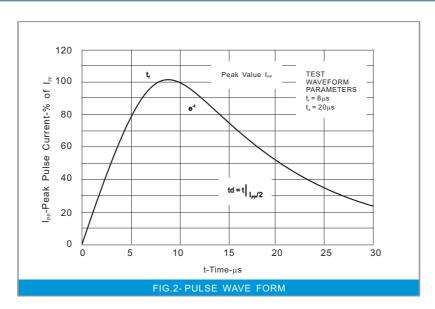
Part Number	Reverse Stand -off Voltage	Minmum Breakdown Voltage	Max Clamping Voltage @ 8/20 μsec	Peak Pulse Current 8/20 μsec	Maximum Leakage Current	Off-State Capacitance, 1MHz Zero dc Bias Note 1	Marking Code	
	Vrwm	@1mA VBR	VcL @ IPP	IPP	@Vrwm Id	Cd		
	Max. V	V	V	Max. A	μΑ	Max. pF		
PJSOT03C-05	3	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	

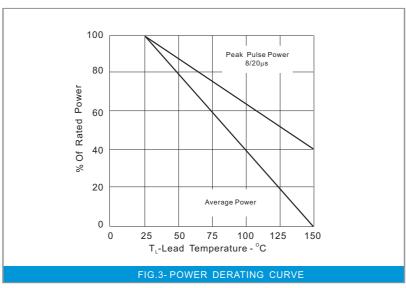
Note 1: Capacitance is measured between Pin 3 and either Pin 1 or 2 for the PJSOT03-05C and PJSOT36C-05 individual capacitance is measured between Pin 1 to Pin 3 or Pin2 to Pin 3.







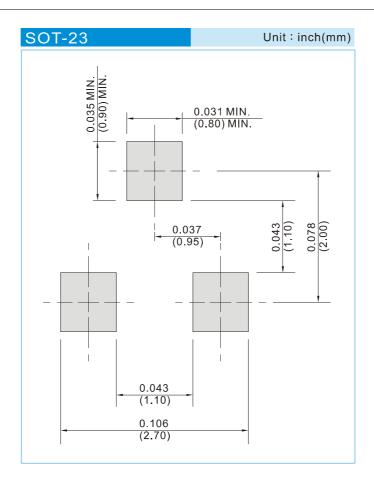








#### MOUNTING PAD LAYOUT



#### **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 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	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)	Α	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				





## **Disclaimer**

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
  of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
   Customers are responsible in comprehending the suitable use in particular applications.
   Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for ESD Suppressors / TVS Diodes category:

Click to view products by Panjit manufacturer:

Other Similar products are found below:

60KS200C D12V0H1U2WS-7 D18V0L1B2LP-7B 82356050220 D5V0F4U5P5-7 D5V0M5U6V-7 NTE4902 P4KE27CA P6KE11CA
P6KE39CA-TP P6KE8.2A SA110CA SA60CA SA64CA SMBJ12CATR SMBJ33CATR SMBJ8.0A SMLJ30CA-TP ESD112-B1-02EL
E6327 ESD119B1W01005E6327XTSA1 ESD5V0J4-TP ESD5V0L1B02VH6327XTSA1 ESD7451N2T5G 19180-510 CPDT-5V0USP-HF
3.0SMCJ33CA-F 3.0SMCJ36A-F HSPC16701B02TP D3V3Q1B2DLP3-7 D55V0M1B2WS-7 DESD5V0U1BL-7B DRTR5V0U4SL-7
SCM1293A-04SO ESD203-B1-02EL E6327 SM12-7 SMF8.0A-TP SMLJ45CA-TP CEN955 W/DATA 82350120560 82356240030
VESD12A1A-HD1-GS08 CPDUR5V0R-HF CPDUR24V-HF CPDQC5V0U-HF CPDQC5V0USP-HF CPDQC5V0-HF D1213A-01LP4-7B
D1213A-02WL-7 ESDLIN1524BJ-HQ 5KP100A