Features			z
Bidirectional ESD protection of one line		0.120(3.04)	0.006(0.15)MIN
IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact Compliance with	n		0.006
the capability up to $\pm 30 \text{kV}$			
• IEC61000-4-4(EFT): 40A(5/50nS)	0.05	6(1.40)	0.103(2.60) 0.086(2.20)
 IEC61000-4-5(Lightning): 3.5A(8/20μS) 	0.04	7(1.20)	<u> </u>
 Low leakage current, maximum of 0.1μA at rated voltage 	-	0.079(2.00)	0.008(0.20)
• Lead free in compliance with EU RoHS 2011/65/EU directive.			
 Green molding compound as per IEC61249 Std. 	0.0	04(0.10)	
(Halogen Free)		00(0.00) 0.035(0.90)	
Mechanical Data		0.020(0.50)	
Case: SOT-23, Plastic			
• Terminals: Solderable per MIL-STD-750, Method 2026			
• Approx. Weight: 0.0003 ounces, 0.008 grams			
Marking: RA			
Applications			
Mobile Phones and accessories			
Desktops, Servers and Notebook			
Hand held portable	₩		
Digital Cameras	Ţ		
Computer Interfaces Protection	2		
• Serial and Parallel Ports Protection Fig.170(Top V	∕iew)		
Control Signal Lines Protection			
Maximum Ratings ($T_A=25^{\circ}C$ unless otherwise noted)			
PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)		±30	
ESD IEC61000-4-2(Contact)	V _{ESD}	+30	kV

SEMI CONDUCTOR

Features

V_{RWM}

PANJ

- Bidirectional ESD protection of one line
- IEC61000 4 2/ESD): +15k)/ Air +9k)/ Contact C

- •

ESD IEC61000-4-2(Contact)

Operating Junction Temperature	TJ	
Storage Temperature Range	T _{STG}	

UNITS

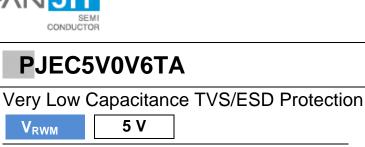
°C

°C

±30

-55 to +125

-55 to +150



SOT-23



Unit : inch(mm)



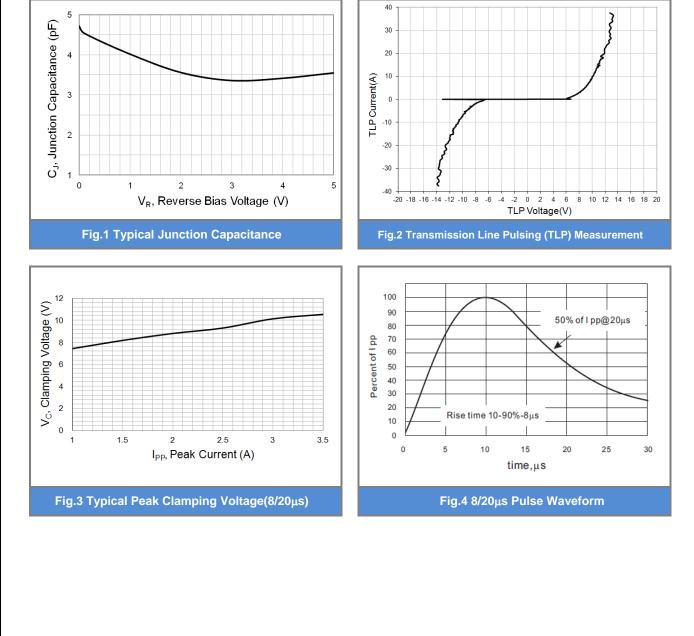


Electrical	Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)
Electrical	$Characteristics (T_A=25 C unless otherwise noted)$

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Snap-Break Voltage	V_{SB}	I _{SB} =50mA	5	-	8	V
Reverse Leakage Current	I _R	V _R =5.0V	-	-	0.1	μA
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs	-	-	9	v
		I _{PP} =3.5A, t _P =8/20μs	-	-	12.5	
Clamping Voltage TLP (Note 1)	V _{CL}	I _{PP} =4A, t _P =100ns	-	8.6	-	V
		I _{PP} =8A, t _P =100ns	-	9.7	-	
Dynamic Resistance	R _{DYN}	t _P =100ns	-	0.27	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f=1MHz	-	-	6	рF

NOTES :

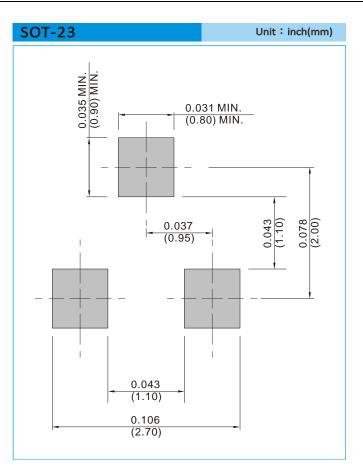
1. Testing using Transmission Line Pulse (TLP) conditions: $Z_0 = 50\Omega$, $t_P = 100$ ns.



TYPICAL CHARACTERISTIC CURVES



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R – 3K per 7" plastic Reel T/R – 12K per 13" plastic Reel









Part No_packing code_Version

PJEC5V0V6TA_R1_00001 PJEC5V0V6TA_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 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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			



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.