■ IEC61000-4-4(EFT): 40A(5/50nS)	0.05	6(1.40)		0.086(2.2
IEC61000-4-5(Lightning): 3.5A(8/20µS)	0.04	7(1.20)		
 Low leakage current, maximum of 0.1µA at rated voltage 	-	0.079(2.00)		0.008(0.20) 0.003(0.08)
• Lead free in compliance with EU RoHS 2011/65/EU directive.				
 Green molding compound as per IEC61249 Std. 	0.0	04(0.10)	0.044(1.10)	_
(Halogen Free)	0.0	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: M1A				
Applications				
Mobile Phones and accessories				
Desktops, Servers and Notebook				
Hand held portable	2			
Digital Cameras				
Computer Interfaces Protection				
 Serial and Parallel Ports Protection Fig. 170(Top Vi 	ew)			
 Control Signal Lines Protection 				
Maximum Ratings ($T_A = 25^{\circ}C$ unless otherwise noted)				
PARAMETER	SYMBOL	LIMIT		UNITS

• Bidirectional ESD protection of one line

the capability up to $\pm 30 \text{kV}$

Ν

- •
- A

PANJ

V_{RWM}

Features

SEM CONDUCTOR

PJEC5V0M1TA

5 V

N

ESD IEC61000-4-2(Air)

ESD IEC61000-4-2(Contact)

Storage Temperature Range

Operating Junction Temperature

UNITS

kV

°C

°C

±30

±30

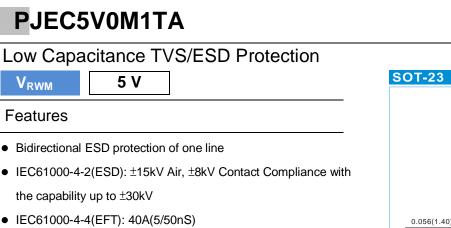
-55 to +125

-55 to +150

 V_{ESD}

 T_{J}

 $\mathsf{T}_{\mathsf{STG}}$





Unit : inch(mm)

0.103(2.60) 0.086(2.20)

0.006(0.15)MIN.

0.120(3.04)

0.110(2.80)



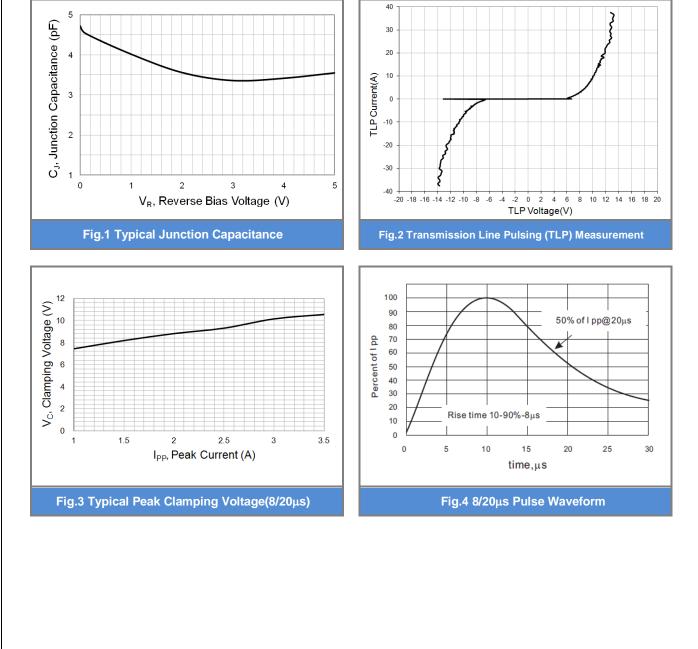


Electrical Characteristics (T _A =25°C u	unless otherwise noted)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Snap-Break Voltage	V_{SB}	I _{SB} =50mA	5	-	8	V
Reverse Leakage Current	I _R	V _R =5.0V	-	-	0.1	μA
Clamping Voltage	V _{CL}	I _{PP} =1A, t _P =8/20μs	-	-	9	V 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	-	
		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	-	_	10	рF

NOTES :

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



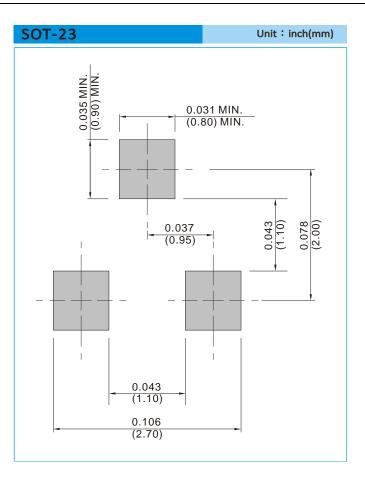
TYPICAL CHARACTERISTIC CURVES

PJEC5V0M1TA









ORDER INFORMATION

Packing information

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









Part No_packing code_Version

PJEC5V0M1TA_R1_00001 PJEC5V0M1TA_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)	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			



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