



Unit: inch(mm)

0.036(0.90) 0.027(0.70)

0.014(0.35)

0.006(0.15)

0.012(0.30)MIN

0.107(2.7) 0.090(2.3)

PJEC3V0V1WS

Very Low Capacitance TVS/ESD Protection

3 V **V**_{RWM}

Features

- Bidirectional ESD protection of one line
- IEC61000-4-2(ESD):±30kV Air,±30kV Contact Compliance
- IEC61000-4-4(EFT):40A(5/50nS)
- IEC61000-4-5(Lightning):15A(8/20uS)
- Very Low Capacitance: 1.2 pF Maximum
- Protect one data, control or power line
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std. (Halogen Free)

Mechanical Data

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams
- Marking: B1

Applications

- Mobile Phones and accessories
- Desktops, Servers and Notebook
- Hand held portable
- Digital Cameras
- Computer Interfaces Protection
- Serial and Parallel Ports Protection
- Control Signal Lines Protection

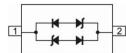


Fig.97(TOP VIEW)

SOD-323

0.054(1.35),

0.045(1.15)

Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	±30		14/	
ESD IEC61000-4-2(Contact)	V _{ESD}	±30	kV	
Operating Junction Temperature	TJ	-55 to +125	$^{\circ}\!\mathbb{C}$	
Storage Temperature Range	T _{STG}	-55 to +150	$^{\circ}\!\mathbb{C}$	





Electrical Characteristics (T_A=25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	3.0	V
Reverse Break Voltage	V_{BR}	I _T =1mA	4.75	1	5.25	V
Reverse Leakage Current	I _R	V _R =3.0V	-	ı	20	μА
Clamping Voltage	V _{CL}	$I_{PP}=1A, t_{P}=8/20\mu s$	-	ı	7.5	V
		$I_{PP}=5A$, $t_{P}=8/20\mu$ s	-	10.5	-	
Clamping Voltage TLP(Note 1)	V _{CL}	I _{PP} =4A, t _P =100ns	-	10	-	V
		I _{PP} =8A, t _P =100ns	-	13	-	
Dynamic Resistance	R _{DYN}	t _P =100ns	-	0.75	-	Ω
Off State Junction Capacitance	C _J	0Vdc Bias f=1MHz	-	0.9	1.2	pF

NOTE:

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





TYPICAL CHARACTERISTIC CURVES

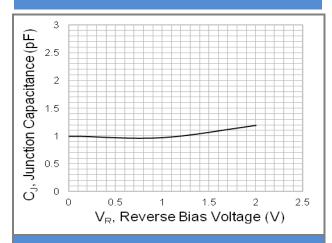


Fig.1 Typical Junction Capacitance

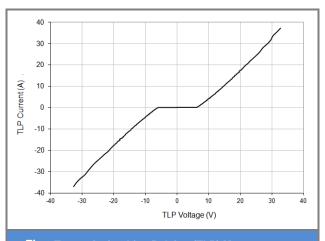


Fig.2 Transmission Line Pulsing (TLP) Measurement

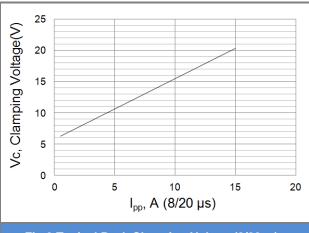


Fig.3 Typical Peak Clamping Voltage(8/20μs)

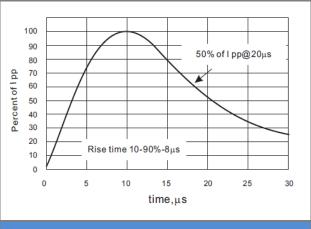


Fig.4 8/20 Pulse Waveform

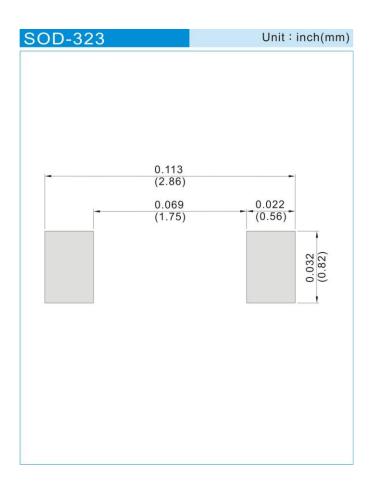




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PJEC3V0V1WS_R1_00001	SOD-323	5K pcs / 7" reel	B1	Halogen free
PJEC3V0V1WS_R2_00001	SOD-323	12K pcs / 13" reel	B1	Halogen free

MOUNTING PAD LAYOUT







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