



Very Low Capacitance TVS/ESD Protection

V_{RWM}

Features

• Bidirectional ESD protection of one line

5 V

- IEC61000-4-2(ESD): ±15kV Air, ±8kV Contact Compliance with the capability up to ±30kV
- IEC61000-4-4(EFT): 40A(5/50nS)
- IEC61000-4-5(Lightning): 3.5A(8/20μS)
- Low leakage current, maximum of 0.1μA at rated voltage
- 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: AZ

Applications

- Mobile Phones and accessories
- Desktops, Servers and Notebook
- Hand held portable
- Digital Cameras
- Computer Interfaces Protection
- 0 (10; 11; 5 ();

Serial and Parallel Ports Protection

Control Signal Lines Protection

0.078(1.95) 0.054(1.35) 0.045(1.15) 0.045(1.15) 0.006(0.15) 0.0027(0.70) 0.012(0.30)MIN.

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

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)		±30	kV	
ESD IEC61000-4-2(Contact)	V _{ESD}	±30		
Operating Junction Temperature	T_J	-55 to +125	°C	
Storage Temperature Range	T _{STG}	-55 to +150	°C	

Fig.138(Top View)

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V_{RWM}	-	-	ı	5	V
Snap-Break Voltage	V_{SB}	I _{SB} =50mA	5	-	8	V
Reverse Leakage Current	I_R	V _R =5.0V	-	-	0.1	μА
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	C_{J}	0Vdc Bias f=1MHz	-	-	6	pF

NOTES:

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





TYPICAL CHARACTERISTIC CURVES

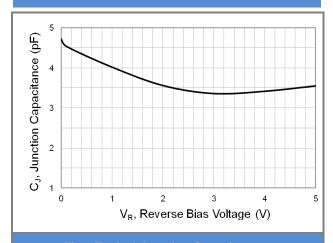


Fig.1 Typical Junction Capacitance

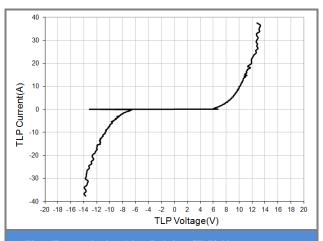


Fig.2 Transmission Line Pulsing (TLP) Measurement

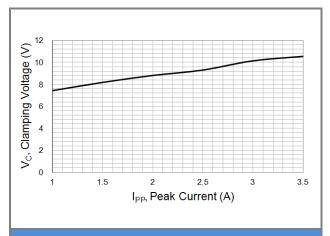


Fig.3 Typical Peak Clamping Voltage(8/20µs)

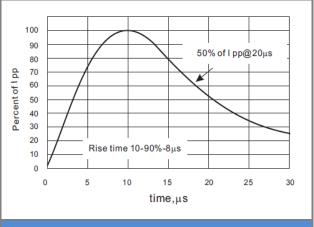
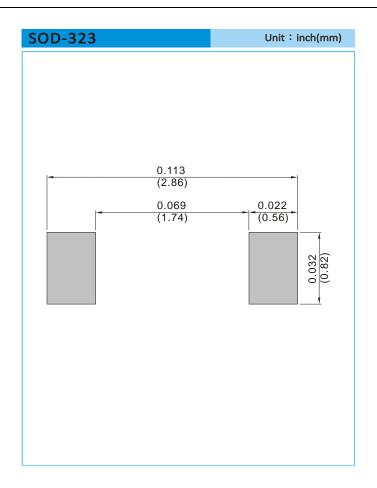


Fig.4 8/20µs Pulse Waveform





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R – 5K per 7" plastic Reel

T/R - 12K per 13" plastic Reel

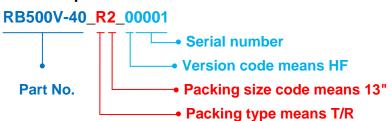




Part No_packing code_Version

PJEC5V0V6WS_R1_00001 PJEC5V0V6WS_R2_00001

For example:



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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