



DSD4V5TC Single line Bi-directional TVS Diode

General description

Single line Bi-directional TVS Diode in a SOD-323 Package.

FEATURES

- Low clamping voltage
- Low leakage current
- Working voltages : 4.5V
- Peak power dissipation:3200W (8/20µs)
- Solid-state silicon-avalanche technology

APPLICATIONS:

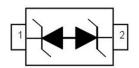
- Power lines Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Microprocessors based equipment
- Notebooks, Desktops, and Servers
- Cell phone Handsets and Accessories
- Notebooks, Desktops, and Servers
- Portable Electronics
- Peripherals

MACHANICAL DATA

- SOD-323 package
- Flammability Rating: UL 94V-0
- High temperature soldering guaranteed:260°C/10s

Package Outline

SOD-323 Package



PIN CONFIGURATION

Device Marking:

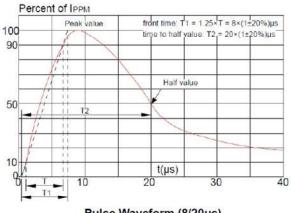
Device Type	Marking
DSD4V5TC	D4

ABSOLU	TE MAXIMUM RATING		
Symbol	Parameter	Value	Units
Vesd	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±30 ±30	kV
Ррр	Peak Pulse Power (8/20µs)	3200	W
Торт	Operating Temperature	-55~125	°C
Tstg	Storage Temperature	-55~150	°C
TL	Lead Soldering Temperature	260	°C

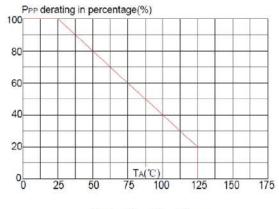


ELECTR	CTRICAL CHARACTERISTICS (Tamb=25°C)					
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
VRWM	Reverse Working Voltage				4.5	V
Vbr	Reverse Breakdown Voltage	I _T = 1mA	4.6	5.2	6.4	V
lr	Reverse Leakage Current	V _{RWM} = 4.5V			1	uA
IPP	Peak Pulse Current	t _p = 8/20µs			160	А
		I _{PP} = 50Α, t _p = 8/20μs		8.5	11	V
Vc	Clamping Voltage	I _{PP} = 100A, t _p = 8/20μs		12	14	V
		I _{PP} = 160A, t _p = 8/20µs		17	20	V
CJ	Junction Capacitance	V _R = 0V, f = 1MHz		300	500	pF

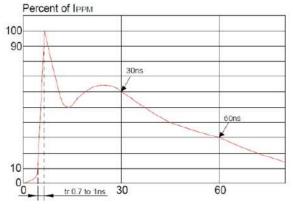
Typical Characteristic:



Pulse Waveform (8/20us)



Pulse Derating Curve

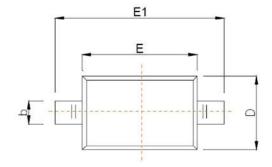


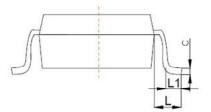
ESD Clamping(8kV Contact Discharge)

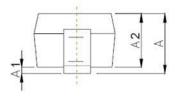




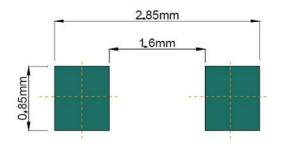
SOD-323 PACKAGE OUTLINE DIMENSIONS







Ourshal	Dimensions I	In Millimeters	
Symbol –	Min	Max	
A		1.00	
A1	0.000	0.100	
A2	0.800	0.900	
b	0.250	0.350	
с	0.080	0.150	
D	1.200	1.400	
E	1.600	1.800	
E1	2.500	2.700	
e	1.800	2.040	
L	0.475 REF		
L1	0.250	0.400	
θ	0°	8°	



Recommended Pad outline



Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.

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 Doeshare manufacturer:

Other Similar products are found below :

60KS200C D18V0L1B2LP-7B D5V0F4U5P5-7 DESD5V0U1BB-7 NTE4902 P4KE27CA P6KE11CA P6KE39CA-TP P6KE8.2A SA110CA SA60CA SA64CA SMBJ12CATR SMBJ33CATR SMBJ8.0A ESD101-B1-02ELS E6327 ESD105-B1-02EL E6327 ESD112-B1-02EL E6327 ESD119B1W01005E6327XTSA1 ESD5V0L1B02VH6327XTSA1 ESD7451N2T5G 19180-510 CPDT-5V0USP-HF 3.0SMCJ33CA-F 3.0SMCJ36A-F HSPC16701B02TP D3V3Q1B2DLP3-7 D55V0M1B2WS-7 DESD5V0U1BL-7B DRTR5V0U4SL-7 SCM1293A-04SO ESD200-B1-CSP0201 E6327 SM12-7 SMF8.0A-TP SMLJ45CA-TP CEN955 W/DATA 82350120560 VESD12A1A-HD1-GS08 CPDUR5V0R-HF CPDQC5V0U-HF CPDQC5V0USP-HF CPDQC5V0-HF D1213A-01LP4-7B D1213A-02WL-7 ISMB33CAT3G-XYZ MMAD1108/TR13 5KP100A 5KP15A 5KP18A 5KP48A