

DSDXXC Series

DSDXXC Series Bi-directional TVS Diode

General description

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

FEATURES

- Low clamping voltage
- Low leakage current
- Working voltages : 3.3V to 36V
- Protects two bidirectional lines

APPLICATIONS:

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports

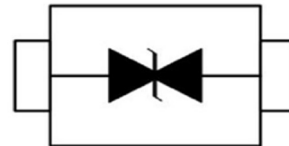
MACHANICAL DATA

- SOD-323 package
- Flammability Rating: UL 94V-0
- MSL1
- High temperature soldering guaranteed:260°C/10s

Package Outline



SOD-323 Package



PIN CONFIGURATION

ABSOLUTE MAXIMUM RATING

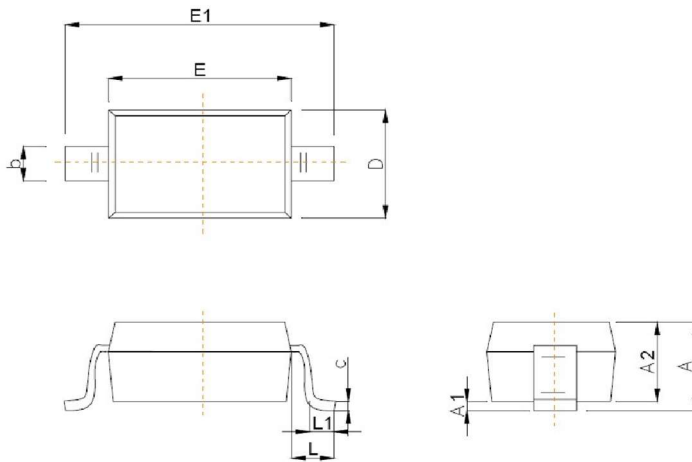
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±15	kV
	ESD per IEC 61000-4-2 (Contact)	±8	
P _{PP}	Peak Pulse Power (8/20µs)	350	W
T _{OPT}	Operating Temperature	-55~150	°C
T _{STG}	Storage Temperature	-55~150	°C
TL	Lead Soldering Temperature	260	°C

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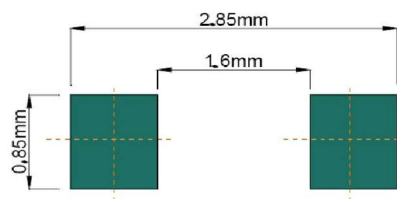
ELECTRICAL CHARACTERISTICS (T _{amb} =25°C)									
PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	I _T	V _{C@1A}	V _C		I _R	C _T (pF)
		(V) (max.)	(V) (min.)	(mA)	(V) (max.)	(max.)	(@A)	(μA) (max.)	(max.)
DSD03C	2A	3.3	4.0	1	7.5	16.0	20	40	450
DSD05C	2B	5.0	6.0	1	9.8	18.0	17	10	200
DSD08C	2C	8.0	8.5	1	13.4	24.0	15	2	120
DSD12C	2D	12.0	13.3	1	19.0	32.0	11	1	75
DSD15C	2J	15.0	16.7	1	24.0	38.0	10	1	68
DSD18C	2K	18.0	20.0	1	29.0	45.0	9	1	57
DSD20C	2L	20.0	22.3	1	35.0	50.0	8	1	52
DSD24C	2H	24.0	26.7	1	43.0	52.0	7	1	50
DSD36C	2N	36.0	40.0	1	60.0	75.0	4.5	1	35

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SOD-323 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters	
	Min	Max
A		1.00
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	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

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