



1- Line, Bi-directional, ESD protection diode

Features

- Transient protection for each line according to IEC61000-4-2(ESD): IEC61000-4-5:
- Low leakage current
- Ultra low clamping voltage
- RoHS Compliant
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

-
-
-
-
-
-
-
-

Mechanical Data

- Package: SOD-323
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020

■Definitions of electrical characteristics

•



ESD15VD3BQ

■Maximum Ratings

PARAMETER	SYMBOL	LIMIT	UNIT
Peak pulse power ($t_p = 8/20\mu s$)	P_{pk}	250	W
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 30	KV
ESD according to IEC61000-4-2 contact discharge		± 30	
Junction temperature	T_J	-55~150	
Storage temperature	T_{STG}	-55~150	

Notes:

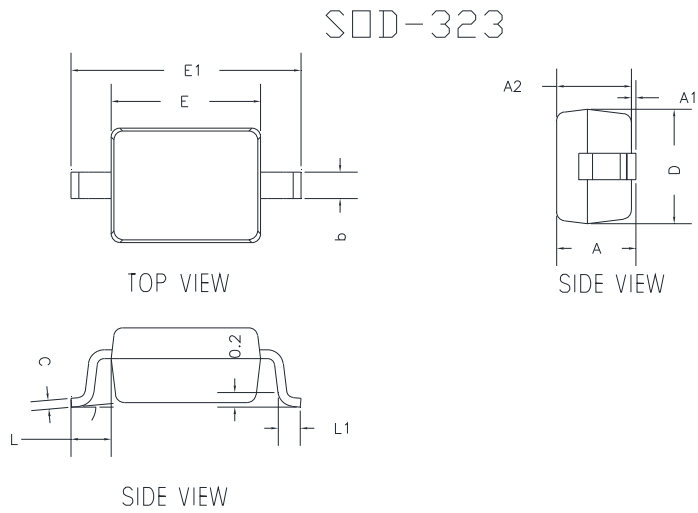
CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

■Electrical Characteristics $T_J=25$

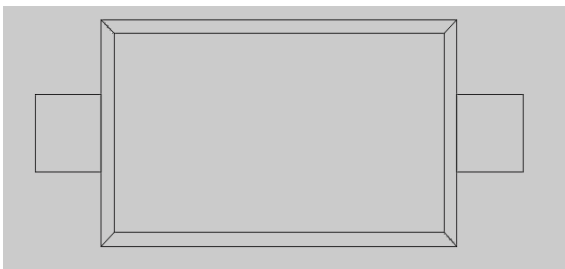
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Standoff Voltage	V_{RWM}	V	$I_R \leq 1\mu A$			15
Reverse breakdown voltage	V_{BR}	V	$I_{BR} = 1mA$	16.7		20
Reverse leakage current	I_R	μA	$V_{RWM} = 15V$			1.0
Clamping voltage ¹⁾	V_{CL}	V	$I_{PP} = 1A, t_p = 8/20\mu s$			24
		V	$I_{PP} = 5A, t_p = 8/20\mu s$			28.5
Dynamic resistance ²⁾	R_{DYN}	Ω	TLP, $t_p=100ns$, I/O to Ground		0.47	
	I_{PP}	A	$t_p = 8/20\mu s$			9



■ Outline Dimensions



■ Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black

(6 ' 9 ' % 4

'LVFODLPHU

7KH LQIRUPDWLRQ SURGXFWLRQ LQ WKH LQWHUJHQH BQRMLH (OHFWURQLF 7HHKQRO
ULJKW WR PDNH FKDLQHVRZLWKRXWSKRLSURGXFWV GLWSOD\HG KHUHLQ WURGLPSURY
RU RWKHUZZLVH

7KH SURGXFWQLVWGHV\KJHGL WR EH MHGHEZEDERQXWPGWLYJQHG IRU XVH LQ PHG
VDYLQJ OLIHVXVWBDOQLRUPDOQLVQH BQVXPVHEQR UOLSEQOLEWLRW\BQWGQPDUR
P VXFK LPSURSHU XVH RI VDOH

7KLV SXEOLFDWLRQ SXOSSHUW BGOVLQURUPDWSLROLSGHYLRXDGGLWLRQDO LQWRHUPDWLR
KWVZ\Z \DQJMLHRRRPRQVXOW \RXU QHDUHVW <DQJMLVW\QVDBOHV RIILFH IRU IXUW