



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

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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

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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:

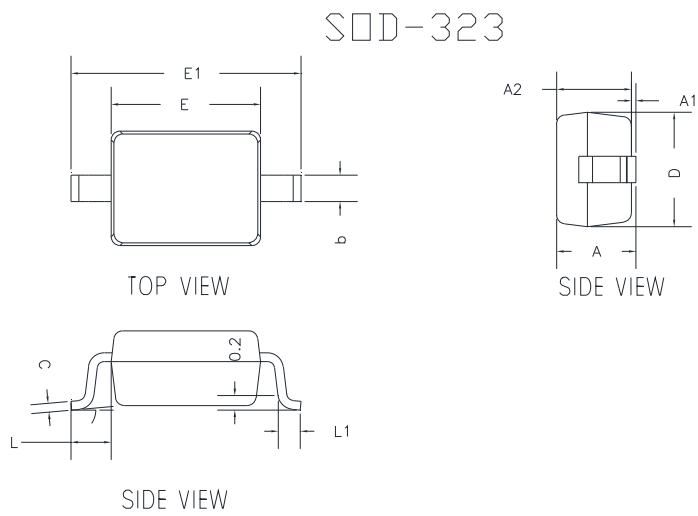
CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

■Electrical Characteristics $T_J=25$

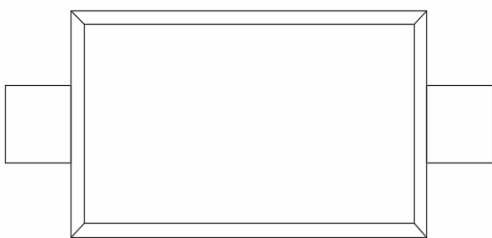
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Standoff Voltage	V_{RWM}	V	$I_R \leq 1\mu A$			15
Reverse breakdown voltage	V_{BR}	V	$I_{BR} = 1mA$	16.7		20
Reverse leakage current	I_R	μA	$V_{RWM} = 15V$			1.0
Clamping voltage ¹⁾	V_{CL}	V	$I_{PP} = 1A, t_p = 8/20\mu s$			24
		V	$I_{PP} = 5A, t_p = 8/20\mu s$			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

