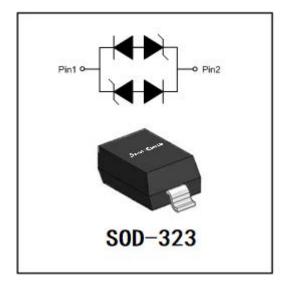


1-Line Low Capacitance Bi-directional TVS Diode



Features

- •300W peak pulse power (8/20µs)
- •Ultra low capacitance: 1pF typical
- •Ultra low leakage: nA level
- Operating voltage:15V
- •Low clamping voltage
- •Protects one power line or data line
- Compliant

Mechanical Characteristics

- Package: SOD-323
- •Moisture Sensitivity: Level 1 per J-STD-020
- •Case Material: "Green" Molding Compound
- Marking Information: See Below



■Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNIT
Peak Pulse Power (8/20µs)	Ppk	300	W
Peak Pulse Current (8/20µs)	IPP	10	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±30 ±30	KV
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	−55 to +150	°C

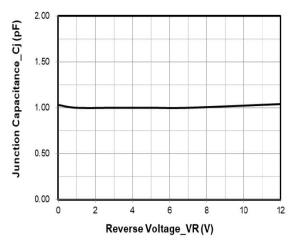
Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	МАХ
Reverse Working Voltage	V_{RWM}	V				15
Breakdown Voltage	V_{BR}	V	I _T = 1mA	16.7		
Reverse Leakage Current	I _R	μΑ	V _{RWM} = 15V			0.2
Clamping Voltage	Vc	V	I _{PP} = 1A (8/20μs pulse)			21
Clamping Voltage	Vc	V	I _{PP} = 10A (8/20μs pulse)			30
Junction Capacitance	CJ	pF	V _R = 0V, f = 1MHz		1	

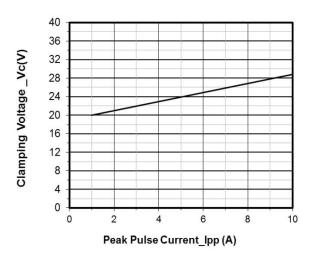
1/4



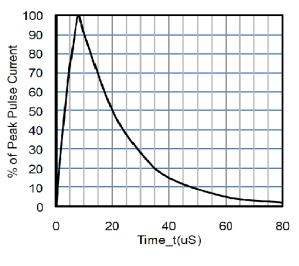
Characteristics (Typical)



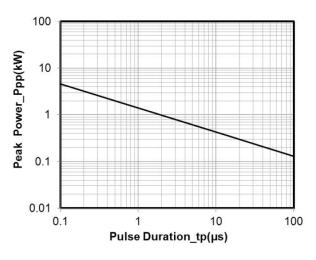
Junction Capacitance vs. Reverse Voltage



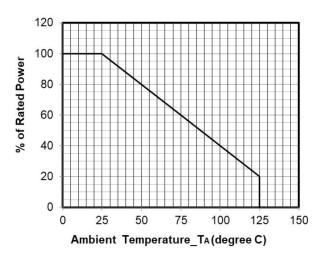
Clamping Voltage vs. Peak Pulse Current



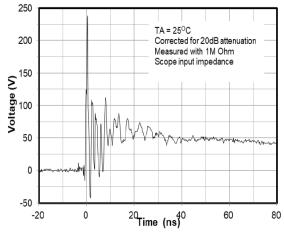
8 / 20µs Pulse Waveform

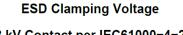


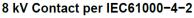
Peak Pulse Power vs. Pulse Time



Power Derating Curve



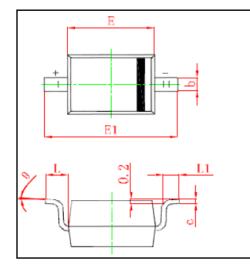


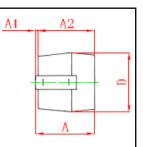


2/4



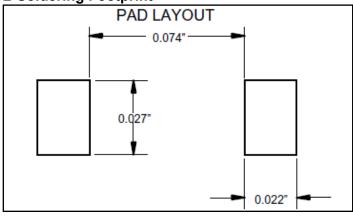
Outline Dimensions





Symbol	Min. (mm)	Max. (mm)	
А		1.000	
A1	0.000	0.100	
A2	0.800	0.900	
b	0.250	0.400	
с	0.080	0.150	
D	1.200	1.400	
Е	1.600	1.800	
E1	2. 500	2.700	
L	0. 475REF		
L1	0.250	0.400	
θ	0°	8°	

Soldering Footprint





ESDSLC15VD3BA

Disclaimer

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