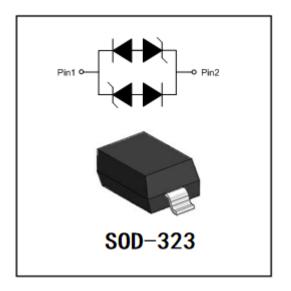
1-Line Low Capacitance Bi-directional TVS Diode



Features

- •350W peak pulse power (8/20µs)
- •Ultra low capacitance: 1pF typical
- •Ultra low leakage: nA level
- Operating voltage:12V
- Low clamping voltage
- •Protects one power line or data line
- RoHS Compliant

Mechanical Characteristics

- Package: SOD-323
- •Case Material: "Green" Molding Compound
- Marking Information: See Below



■Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNIT
Peak Pulse Power (8/20µs)	Ppk	350	W
Peak Pulse Current (8/20µs)	I _{PP}	14	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 ($T_a=25^{\circ}$ Unless otherwise specified)

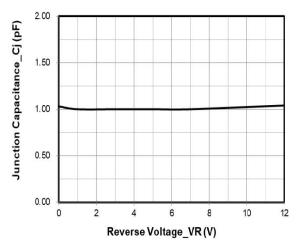
PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	МАХ
Reverse Working Voltage	V_{RWM}	V				12
Breakdown Voltage	V_{BR}	V	I _T = 1mA	13.3		
Reverse Leakage Current	I _R	μA	V _{RWM} = 12V			0.2
Clamping Voltage	Vc	V	I _{PP} = 1A (8/20µs pulse)		18	
Clamping Voltage	Vc	V	I _{PP} = 14A (8/20μs pulse)			25
Junction Capacitance	CJ	pF	V _R = 0V, f = 1MHz		1	

1/4

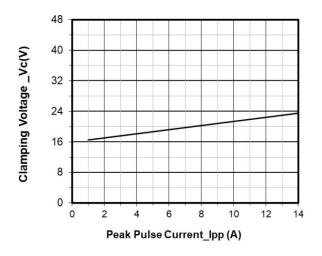


ESDSLC12VD3BA

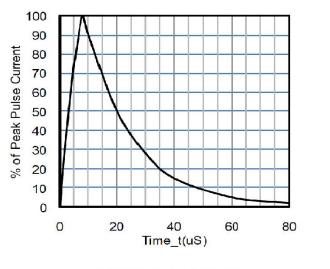
Characteristics (Typical)

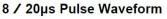


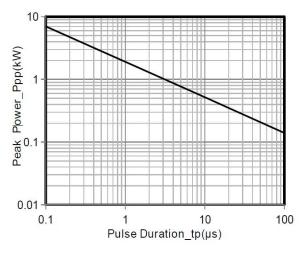
Junction Capacitance vs. Reverse Voltage



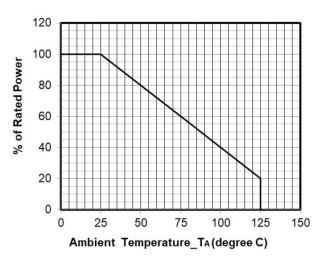
Clamping Voltage vs. Peak Pulse Current



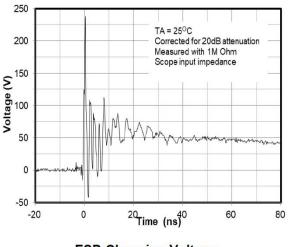


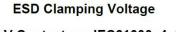


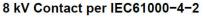
Peak Pulse Power vs. Pulse Time



Power Derating Curve

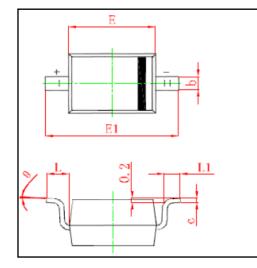


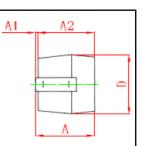






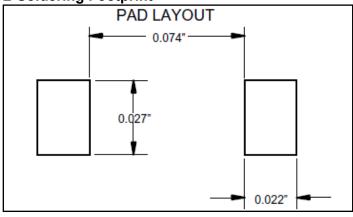
Outline Dimensions





Symbol Symbol	Min. (mm)	Max. (mm)	
A		1.000	
A1	0.000	0. 100	
A2	0.800	0. 900	
b	0.250	0. 400	
с	0.080	0. 1 50	
D	1.200	1.400	
E	1.600	1.800	
E1	2. 500	2.700	
L	0. 475REF		
L1	0.250	0. 400	
θ	0° 8°		

Soldering Footprint



3/4



ESDSLC12VD3BA

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.