

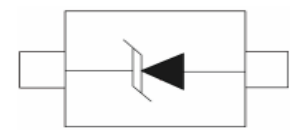


FEATURES

- 2000 Watts peak pulse power per line ($t_P=8/20\mu s$)
- Solid-state silicon-avalanche technology
- Protects one uni-directional I/O line
- Low clamping voltage
- Working voltage:15V
- Low leakage current
- High surge capability
- RoHS compliant
- AEC-Q101 qualified



SOD-323



Pin Configuration

MAIN APPLICATIONS

- Cell phone handsets and accessories
- Microprocessor based equipment
- Personal digital assistants (PDA's)
- Notebooks, desktops, and servers
- Portable instrumentation
- Power lines
- Peripherals

PROTECTION SOLUTION TO MEET

- IEC61000-4-2 (ESD) $\pm 30kV$ (air), $\pm 30kV$ (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 55A (8/20 μs)

MECHANICAL CHARACTERISTICS

- SOD-323 package
- Molding compound flammability rating : UL 94V-0
- Quantity per reel : 3,000pcs
- Lead finish : lead free
- Marking code : H15

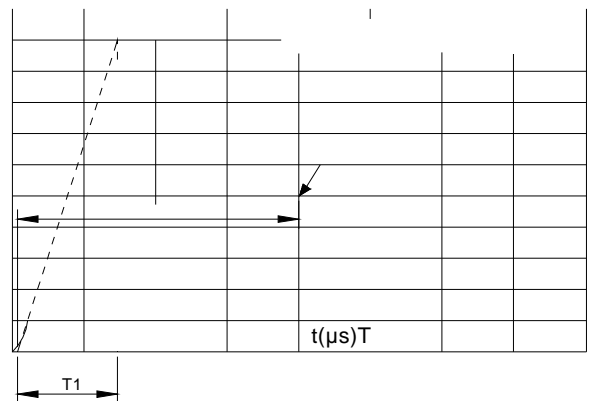
ABSOLUTE MAXIMUM RATINGS (T_A=25°C, RH=45%-75%, unless otherwise noted)

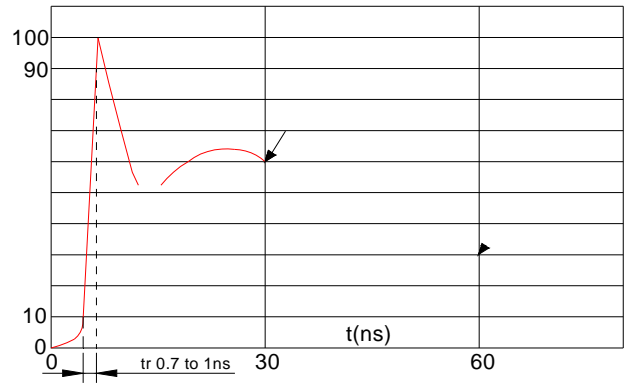
Parameter	Symbol	Value	Unit
Peak pulse power dissipation at 8/20μs waveform	P _{PP}	2000	W
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	+/- 30 +/- 30	kV
Lead soldering temperature	T _L	260 (10 sec.)	
Operating junction temperature range	T _J	-55 to +150	
Storage temperature range	T _{STG}	-55 to +150	

ELECTRICAL CHARACTERISTICS (T_A=25)

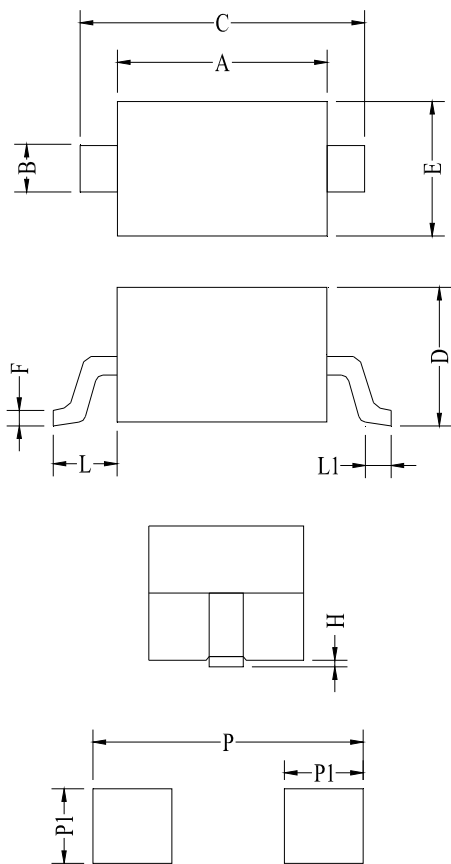
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	V _{RWM}				15	V
Reverse breakdown voltage	V _{BR}	I _T =1mA	16	17.2	20	V
Reverse leakage current	I _R	V _{RWM} =15V			1	μA
Peak pulse current	I _{PP}	t _P =8/20μs			55	A
Clamping voltage	V _C	I _{PP} =25A, t _P =8/20μs		22	25	V
		I _{PP} =50A, t _P =8/20μs		26	28	V
		I _{PP} =55A, t _P =8/20μs		27	30	V
Junction capacitance	C _J	V _{RWM} =0V, f=1MHz		330	400	pF

RATINGS AND V I CHARACTERISTICS CURVES (T_A=25°C, unless otherwise noted)





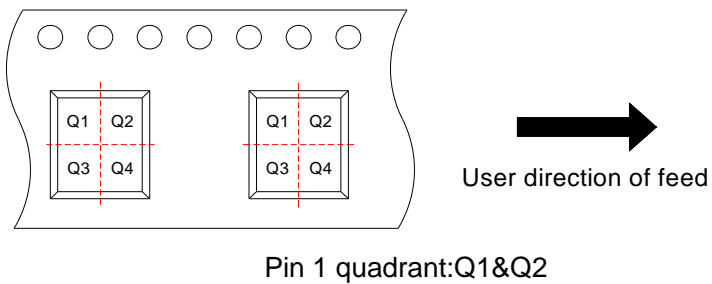
PACKAGE MECHANICAL DATA



Land Pattern

Symbol	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
A	1.60	1.70	1.80	0.063	0.067	0.071
B	0.25	0.32	0.40	0.010	0.013	0.016
C	2.30	2.60	2.80	0.091	0.102	0.110
D	0.80	0.95	1.10	0.031	0.037	0.043
E	1.20	1.30	1.40	0.047	0.051	0.055
F	0.08	0.13	0.18	0.003	0.005	0.007
L	0.475REF			0.019REF		
L1	0.25	0.33	0.40	0.010	0.013	0.016
H	0.00	0.06	0.14	0.000	0.002	0.006
P	3.00			0.118		
P1	0.80			0.031		

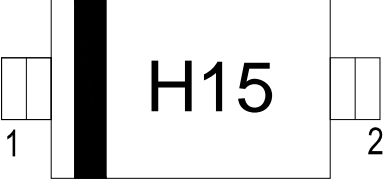
TAPE AND REEL INFORMATION SOD 323



ORDERING INFORMATION

PART No.	PACKAGE TYPE	QUANTITY(PCS) REEL	DESCRIPTION
JEU15D3U-AU			

MARKING CODE

Part Number	Marking Code
JEU15D3U-AU	


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