



### FEATURES:

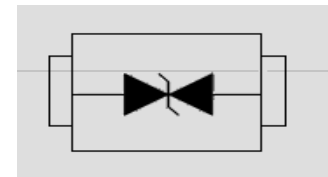
- 400 Watts peak pulse power per line ( $t_P=8/20\mu s$ )
- Protects one bi-directional I/O line
- Low clamping voltage
- Working voltage:12V
- Low leakage current
- RoHS compliant



SOD-323

### MAIN APPLICATIONS

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



Pin Configuration

### PROTECTION SOLUTION TO MEET

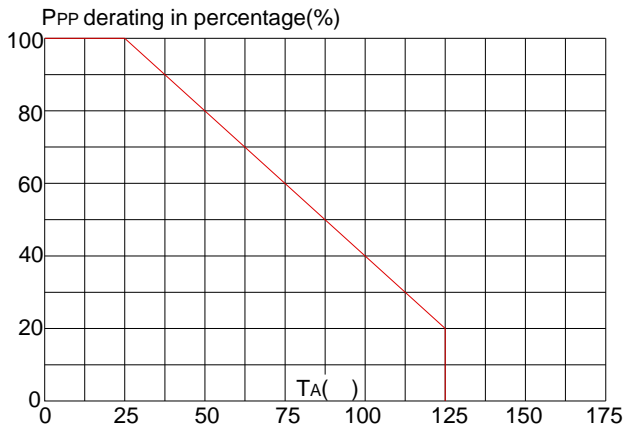
- IEC61000-4-2 (ESD)  $\pm 30kV$  (air),  $\pm 30kV$  (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 12A (8/20 $\mu s$ )

### MECHANICAL CHARACTERISTICS

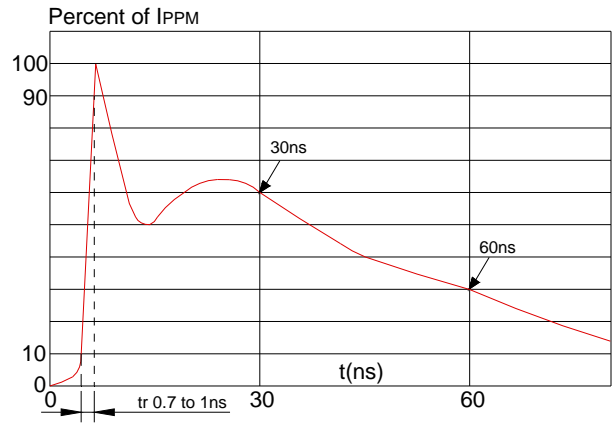
- SOD-323 package
- Molding compound flammability rating : UL 94V-0
- Weight 5 milligrams (approximate)
- Quantity per reel : 3,000pcs
- Lead finish : lead free
- Marking code 12C



**FIG.3: Pulse derating curve**

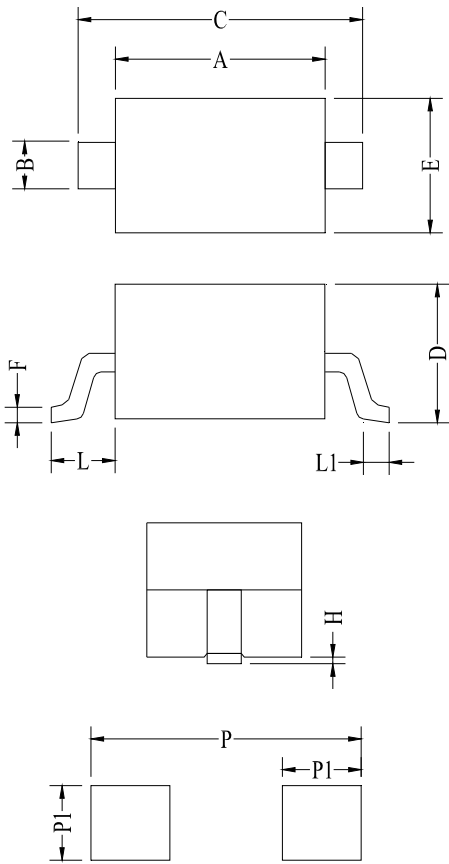


**FIG.4: ESD clamping (30kV contact)**



SOLDERING2D3

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		

JEB12D3



MARKING