

## FEATURES

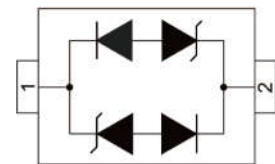
- ✧ 350 watts peak pulse power per line ( $t_p=8/20\mu s$ )
- ✧ Protects one bi-directional I/O line
- ✧ Low clamping voltage
- ✧ Working voltages: 24V
- ✧ Low leakage current
- ✧ RoHS compliant



SOD-323

## MAIN APPLICATIONS

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



PIN Configuration

## 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: HC

**ABSOLUTE MAXIMUM RATINGS** ( $T_A=25^\circ\text{C}$ , RH=45%-75%, unless otherwise noted)

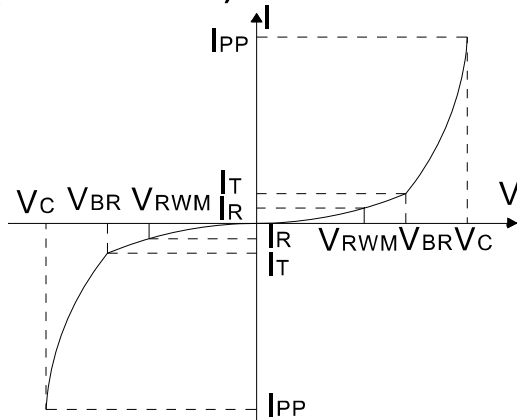
Rating	Symbol	Value	Unit
Peak pulse power (tp=8/20μs waveform)	$P_{PP}$	350	W
ESD voltage (Contact discharge)	$V_{ESD}$	±30	kV
ESD voltage (Air discharge)		±30	
Lead soldering temperature	$T_L$	260	°C
Storage & operating temperature range	$T_{STG}, T_J$	-55~+150	°C

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$ )

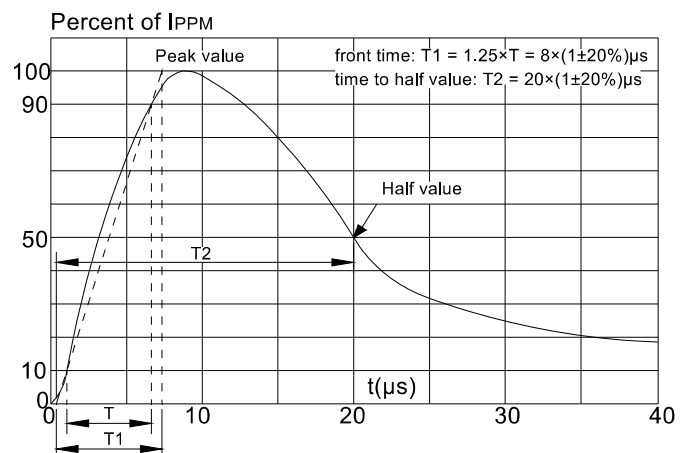
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Reverse stand-off voltage	$V_{RWM}$				24	V
Reverse breakdown voltage	$V_{BR}$	$I_{BR}=1\text{mA}$	26.7			V
Reverse leakage current	$I_R$	$V_R=24\text{V}$			1	μA
Clamping voltage (tp=8/20μs)	$V_C$	$I_{PP}=1\text{A}$			43	V
Clamping voltage (tp=8/20μs)	$V_C$	$I_{PP}=3\text{A}$			56	V
Off state junction capacitance	$C_J$	0Vdc, f=1MHz		0.8		pF

**RATINGS AND V-I CHARACTERISTICS CURVES** ( $T_A=25^\circ\text{C}$ , unless otherwise noted)

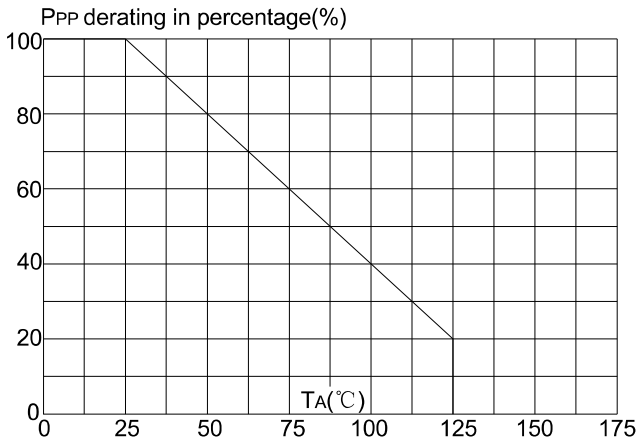
**FIG.1: V- I curve characteristics (Bi-directional)**



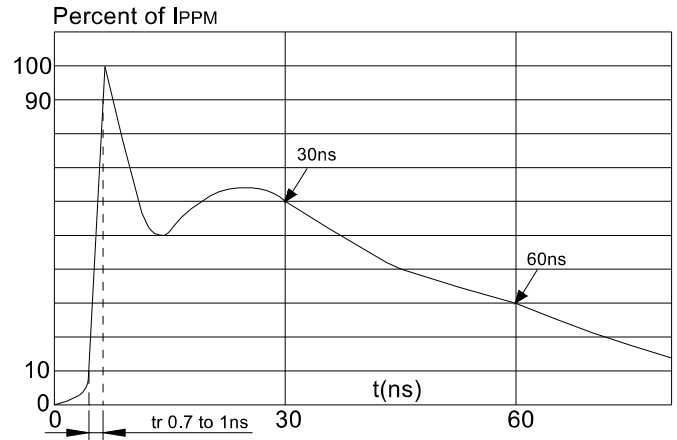
**FIG.2: Pulse waveform (8/20μs)**



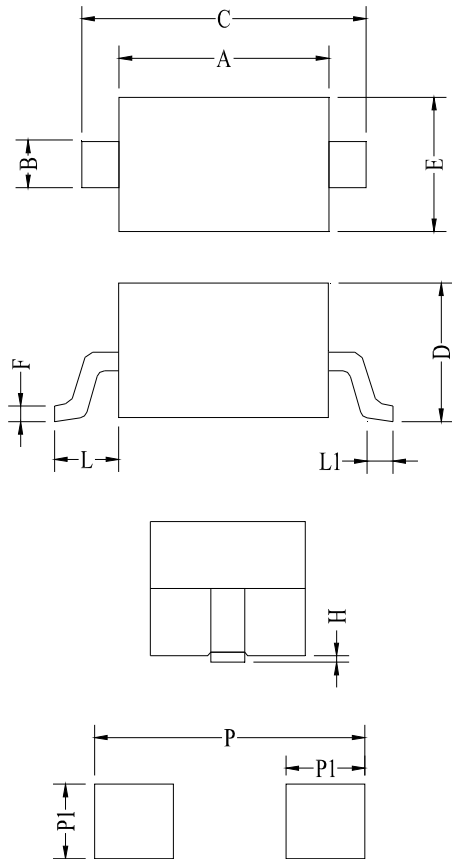
**FIG.3: Pulse derating curve**



**FIG.4: ESD clamping (8KV contact)**



## PACKAGE MECHANICAL DATA



**Land Pattern**

Symbol	Millimeter		Inches	
	Min	Max	Min	Max
A	1.60	1.80	0.063	0.071
B	0.25	0.35	0.010	0.014
C	2.50	2.70	0.098	0.106
D	0.00	1.00	0.000	0.039
E	1.20	1.40	0.047	0.055
F	0.08	0.15	0.003	0.006
L	0.475REF		0.019REF	
L1	0.25	0.40	0.010	0.016
H	0.00	0.10	0.000	0.004
P	3.00		0.118	
P1	0.80		0.031	

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