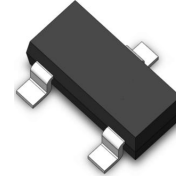


### Features

- 396W ( $t_p=8/20\mu s$ ) Peak Pulse Power per line
- Bi-directional configurations
- Protect two lines
- Low clamping voltage
- Low leakage current
- Moisture sensitivity level: Level 3
- Storage Period: 2 years
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- Meet IEC61000-4-2  
Contact discharge  $\pm 30kV$   
Air discharge  $\pm 30kV$



### Applications

- Data line
- Automatic teller machines
- Net works
- Power line

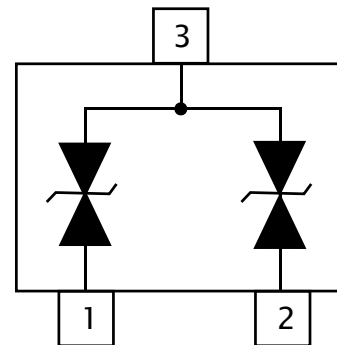
### Mechanical Data

- SOT-23 package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel(7 inch)
- Weight 8.0 Milligrams (Approximate)

### Agency Approvals

Icon	Description
RoHS	Compliance with (EU)2015/863
HF	Compliance with IEC61249-2-21:2003
	Mean lead free

### Schematic & PIN Configuration



**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit
Peak Pulse Power( $t_p=8/20\mu s$ )	$P_{PK}$	396	W
Peak Pulse Current( $t_p=8/20\mu s$ )	$I_{PP}$	11	A
Lead Soldering Temperature	$T_L$	260(10seconds)	$^{\circ}C$
Junction Temperature	$T_J$	-55 to +150	$^{\circ}C$
Storage Temperature	$T_{STG}$	-40 to +125	$^{\circ}C$

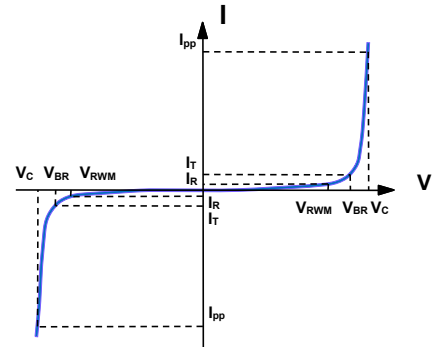
**Electrical Characteristics (TA=25°C unless otherwise specified)**

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	$V_{RWM}$				15	V
Breakdown Voltage	$V_{BR}$	$I_T = 1mA$	16.7			V
Reverse Leakage Current	$I_R$	$V_{RWM} = 15V$			1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP} = 1A, t_p=8/20\mu s$			25	V
Clamping Voltage	$V_C$	$I_{PP} = 11A, t_p=8/20\mu s$			36	V
Junction Capacitance	$C_J$	$V_R = 0V, f = 1MHz$		45		pF

**I-V Curve Characteristics**

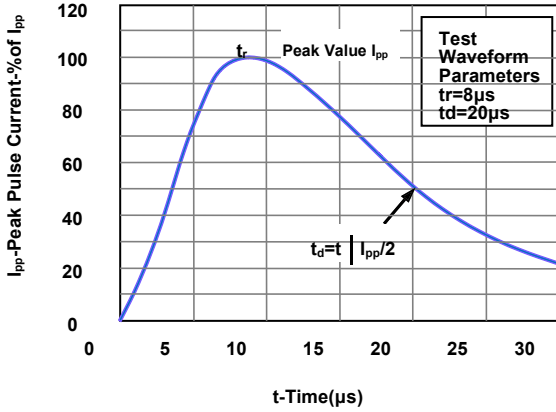
Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Reverse Stand-Off Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current

Note: 8/20 $\mu s$  pulse waveform.

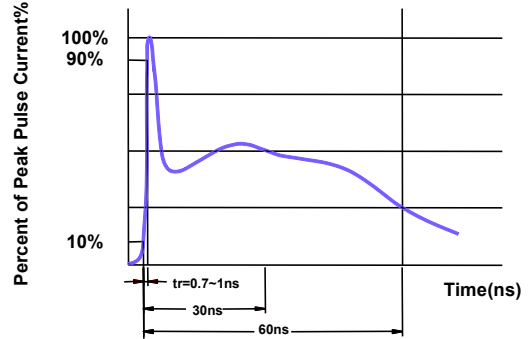


**Characteristics Cureves(TA=25°C unless otherwise Specified)**

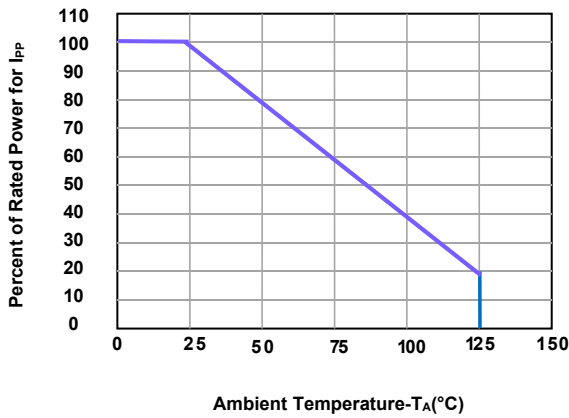
**Fig 1. 8/20µs Pulse Waveform**



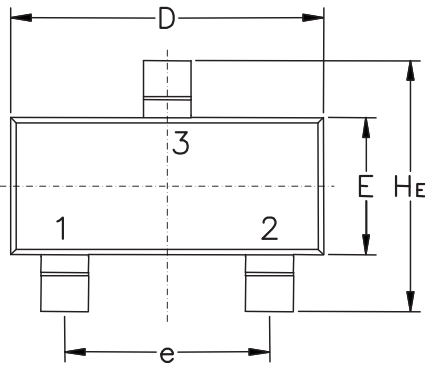
**Fig 2. ESD Pulse Waveform (according to IEC61000-4-2)**



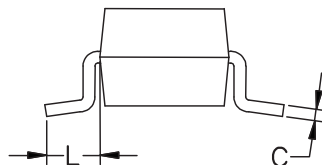
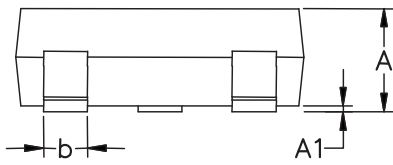
**Fig 3. Power Derating Curve**



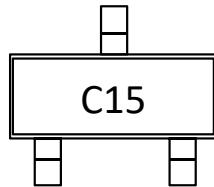
SOT-23 Package Outline



Symbol	Millimeters			Inches		
	Min.	Nom.	Max.	Min.	Nom.	Max.
A	0.10	0.15	0.20	0.004	0.006	0.008
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.30	0.44	0.50	0.012	0.017	0.020
C	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.00	1.10	1.15	0.039	0.043	0.045
e	1.78	1.90	2.04	0.070	0.075	0.081
L	0.35	0.54	0.69	0.014	0.021	0.027
HE	2.20	2.10	2.15	0.087	0.083	0.085



Marking Information



Packaging Information

	Reel	Inner Box	Carton
Size	φ178mm(7 inch)	215×205×205mm	435×435×230mm
Quantity	MPQ/MOQ: 1 reel=3000pcs	1 Inner box=10 reels=30,000pcs	1Carton=4 Inner boxes=120,000pcs
Photos			

Notice: 1、 Each reel is placed in an aluminum foil bag and vacuum-packed separately.

2、 Above packaging photos make from 3D software for reference only, please refer to actual product as the standard.