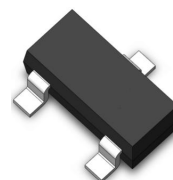


Features

- 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 1
- 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

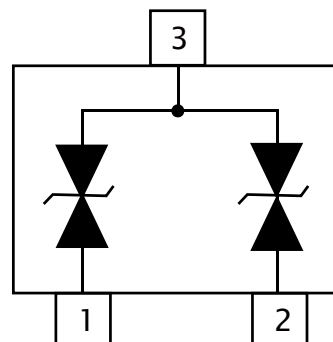
Mechanical Data

- 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	$^{\circ}C$

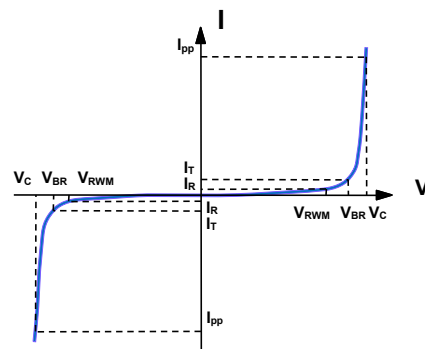
Electrical Characteristics (TA=25 $^{\circ}C$ unless otherwise specified)

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	μA
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 μs pulse waveform.



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

Fig 1. 8/20μs Pulse Waveform

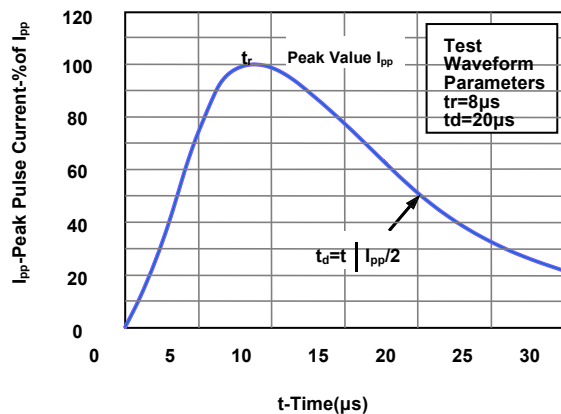


Fig 2. ESD Pulse Waveform (according to IEC61000-4-2)

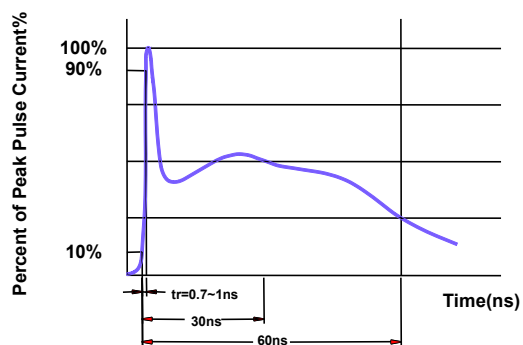
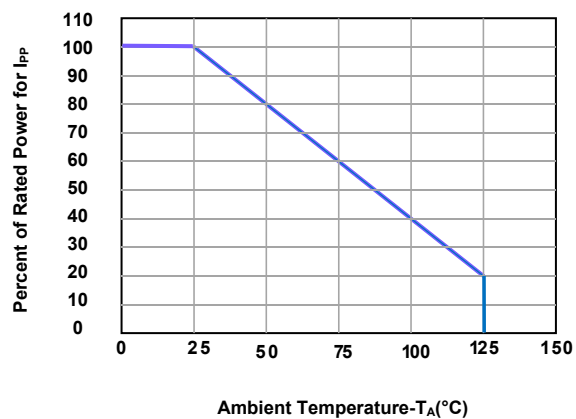
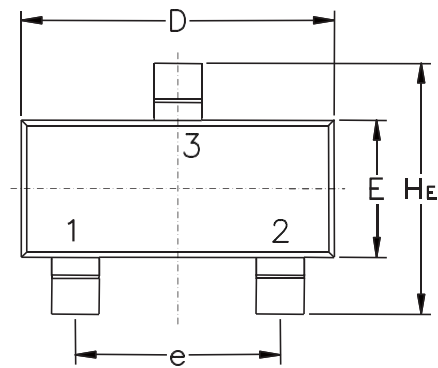


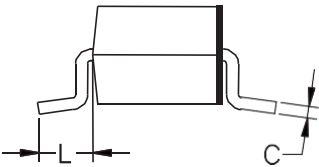
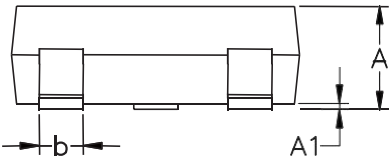
Fig 3. Power Derating Curve



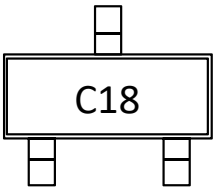
SOT-23 Package Outline



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.05	1.11	1.25	0.042
A1	0.01	0.06	0.1	0.001
b	0.3	0.44	0.5	0.012
C	0.09	0.13	0.2	0.003
D	2.8	2.9	3.04	0.11
E	1.5	1.6	1.7	0.059
e	1.78	1.9	2.04	0.07
L	0.35	0.54	0.69	0.014
HE	2.65	2.8	2.95	0.104



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.