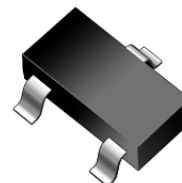


Features

- 240W ($t_p=8/20\mu s$) Peak Pulse Power
 - Uni-directional configurations
 - Protect two lines
 - Low clamping voltage
 - Low leakage current
 - Moisture sensitivity level: Level 3
 - Solid-state silicon avalanche technology
 - Meet IEC61000-4-2
- Contact discharge $\pm 30kV$
Air discharge $\pm 30kV$



Applications

- High-Speed data lines
- Cellular handsets AND accessories
- Universal Serial Bus (USB) port protection
- Portable instrumentation
- LAN/WAN equipment
- Peripherals

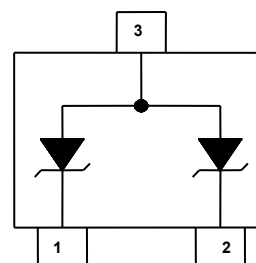
Mechanical Data

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

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}	240	W
Peak Pulse Current($t_p=8/20\mu s$)	I_{PP}	4	A
Lead Soldering Temperature	T_L	260(10seconds)	$^{\circ}C$
Operating Temperature	T_J	-40 to +125	$^{\circ}C$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}C$

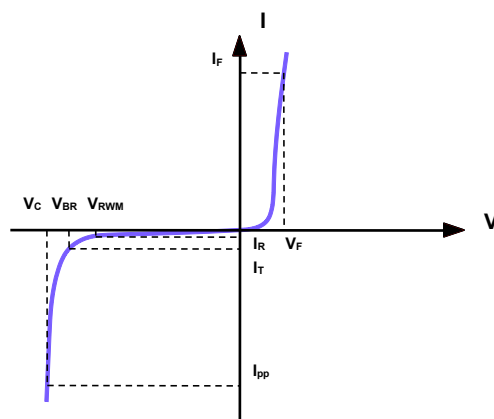
Electrical Characteristics (TA=25 $^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V_{RWM}				36	V
Breakdown Voltage	V_{BR}	$I_T = 1mA$	40			V
Reverse Leakage Current	I_R	$V_{RWM} = 36V$			1	μA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p=8/20\mu s$		45	50	V
Clamping Voltage	V_C	$I_{PP} = 4A, t_p=8/20\mu s$		55	60	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$ pin1/pin2 to pin3		28	40	pF
Junction Capacitance	C_J	$V_R=0V, f=1MHz$ pin1 to pin2		15	20	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
I_F	Forward Current
V_F	Forward Voltage @ I_F

Note: 8/20 μs pulse waveform.



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

Fig 1. 8/20μs Pulse Waveform

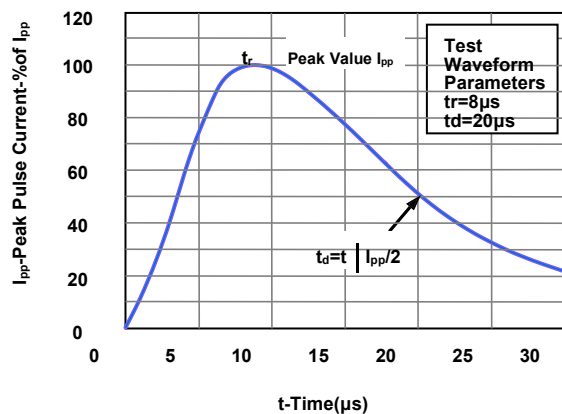


Fig2.ESD Pulse Waveform (according to IEC61000-4-2)

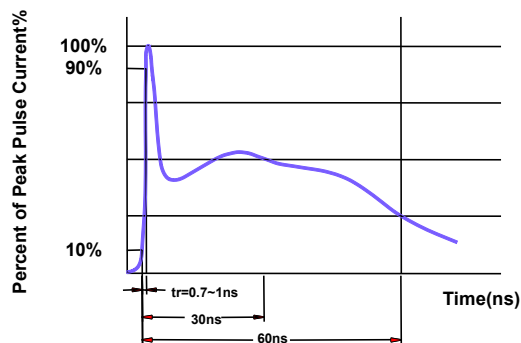
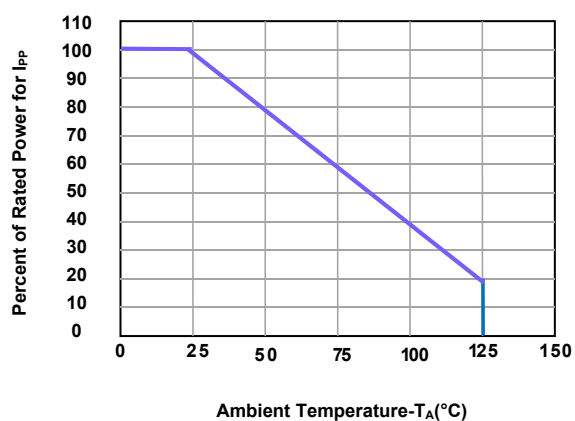
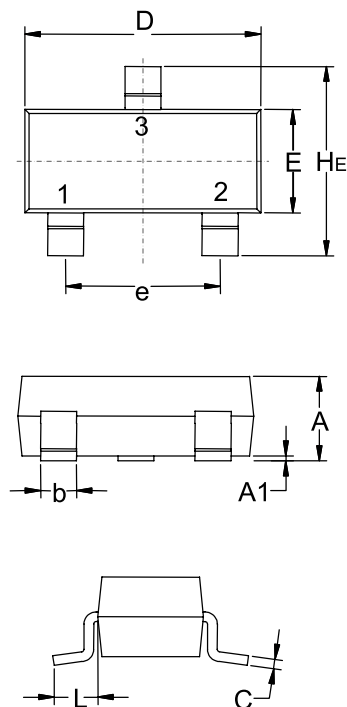


Fig 3. Power Derating Curve

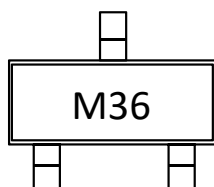


SOT-23 Package Outline



Dimensions						
DIM	Inches			Millimeters		
	Min	Nom	Max	Min	Nom	Max
A	0.035	0.040	0.044	0.89	1.00	1.12
A1	0.001	0.002	0.004	0.01	0.06	0.10
b	0.015	0.018	0.020	0.37	0.44	0.50
C	0.003	0.005	0.007	0.09	0.13	0.18
D	0.110	0.114	0.120	2.80	2.90	3.04
E	0.047	0.051	0.055	1.20	1.30	1.40
e	0.070	0.075	0.081	1.78	1.90	2.04
L	0.014	0.021	0.029	0.35	0.54	0.69
HE	0.083	0.094	0.104	2.1	2.4	2.64

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.