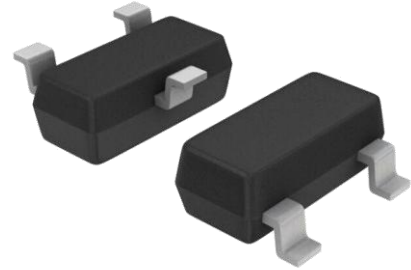




## Features

- 360 Watts peak pluse power( $t_p=8/20\mu s$ )
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- IEC61000-4-2  $\pm 30kV$  (contact)  $\pm 30kV$  (air)
- IEC61000-4-4(EFT) 40A (5/50ns)
- IEC61000-4-5(Lightning)6A(8/20 $\mu s$ )



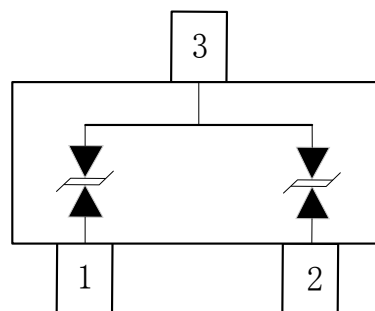
## Applications

- Portable Electronics
- Set-Top Box
- Cellular Handsets and Accessories
- Contral & Monitoring Systems
- RS-232,RS-422&RS-485

## Mechanical Data

- SOT23 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

## Schematic & PIN Configuration



SOT-23(Top View)

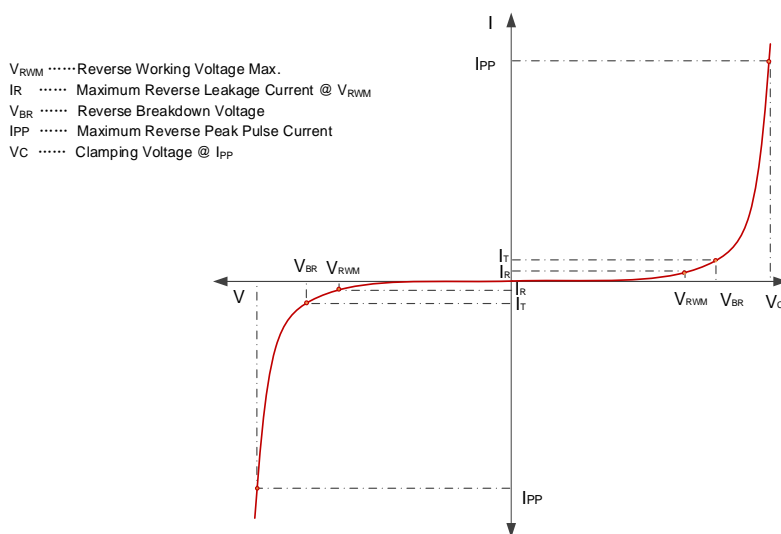
### Absolute Maximum Rating

Rating	Symbol	Value	Units
Reverse Voltage	$P_{PP}$	360	Watts
Peak Pluse Current(tp=8/20μs)	$I_{PP}$	6	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	$V_{ESD}$	30 30	KV
Lead Soldering Temperature	$T_L$	260(10seconds)	°C
OperatingTemperature	$T_J$	-55 to + 125	°C
Storage Temperature	$T_{STG}$	-55 to + 125	°C

### Electrical Characteristics(TA = 25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Voltage	$V_{RWM}$				36	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	40			V
Reverse Leakage Current	$I_R$	$V_{RWM}=36V, T=25°C$		0.1	0.5	μA
Clamping Voltage	$V_C$	$I_{PP}=6A, tp=8/20μs$		54	60	V
Junction Capacitance	$C_j$	$V_R=0V, f=1MHz$ PIN1/PIN2 to PIN3		12	16	pF

### Electrical Parameters (TA = 25°C unless otherwise noted)





### Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

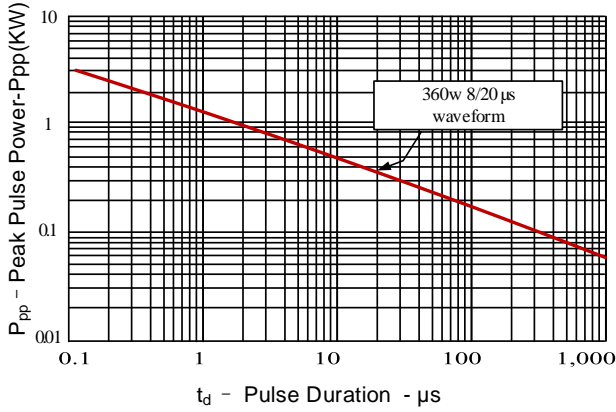


Figure 2: Power Derating Curve

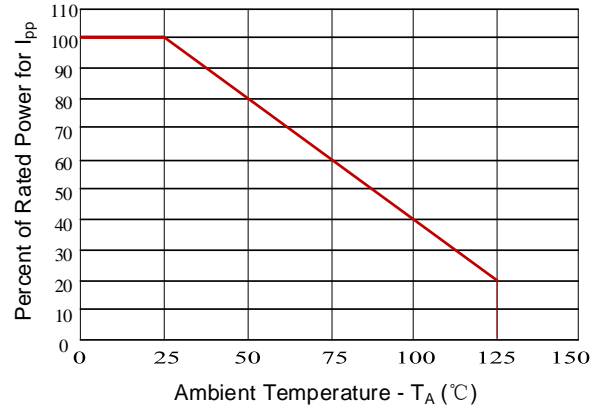


Figure3: Pulse Waveform

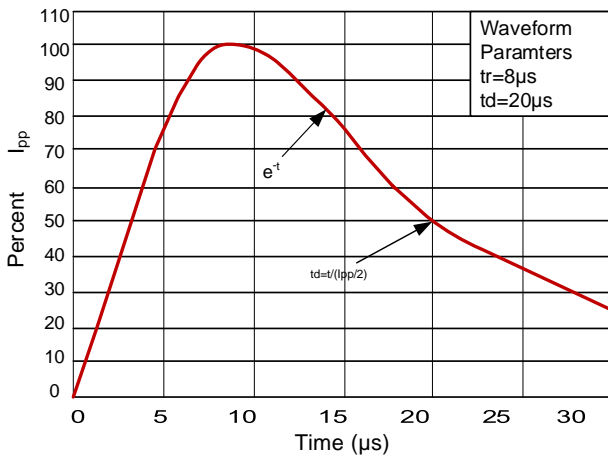
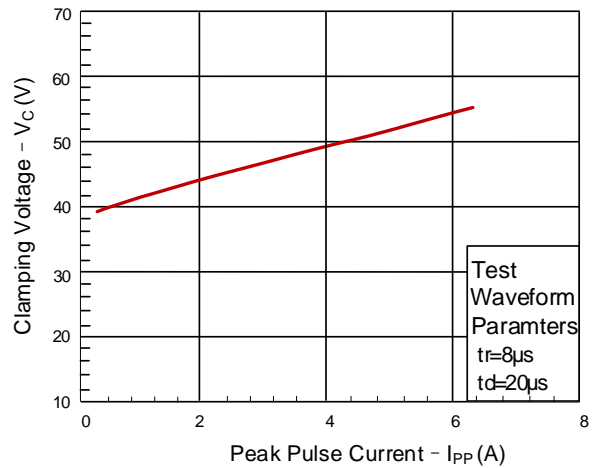
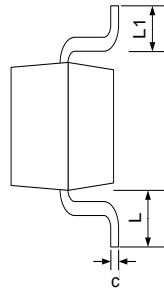
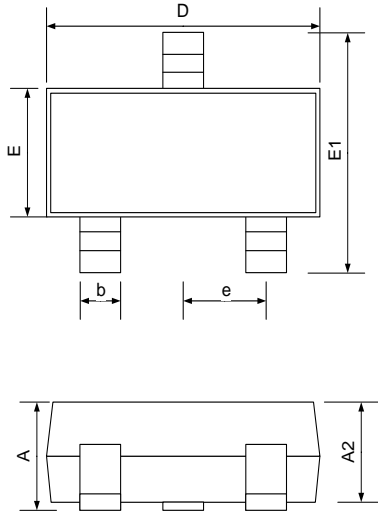


Figure 4: Clamping Voltage vs. Ipp



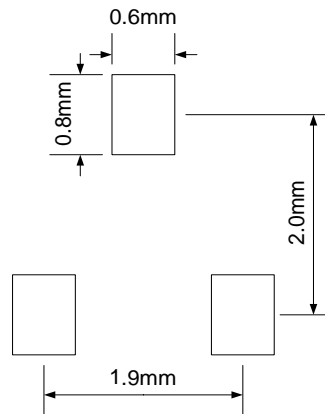


### Outline Drawing-SOT23



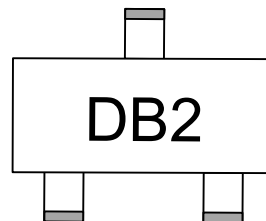
COMMON DIMENSION (mm)			
PKG	SOT23		
REF.	MIN.	NOM.	MAX.
A	0.900		1.150
A2	0.900		1.050
b	0.300		0.500
c	0.080		0.150
D	2.800		3.000
E	1.200		1.400
E1	2.250		2.550
e		0.950	
L		0.550	
L1	0.300		0.500

### Recommend PCB Layout



Notes: This PCB layout is for reference purposes only.

### Marking



### Ordering Information

Part number	Type	Reel size	MOQ
SM36T1G-B	T/R	7 inch	3k/reel

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[E6327](#) [AOZ8808DI-03](#) [5KP15A](#) [5KP48A](#) [5KP90A](#) [ESD3V3D7-TP](#) [15KPA36A-LF](#) [P4KE56CA](#) [P4KE68A](#) [P4KE91CATR](#) [P6KE120A](#)  
[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)