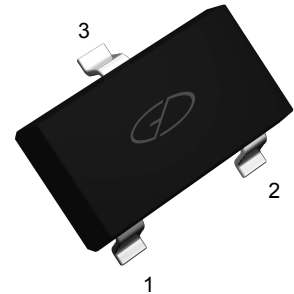


Features

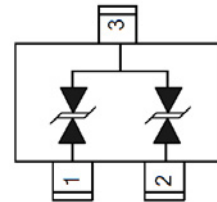
- 250 Watts peak pulse power ($t_P = 8/20\mu s$)
- SOT-23 package
- Protects two bidirectional lines
- Fast response time, typically $< 1\text{ ns}$
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 20\text{kV}$ (Air) ESD protection
- IEC 61000-4-2 $\pm 15\text{kV}$ (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection
- RoHS compliant



Package: SOT-23

Applications

- Cellular Handsets and Accessories
- Portable Electronics
- Control & Monitoring Systems
- Servers, Notebooks
- Set-Top Box
- Communication Systems



Schematic Diagram

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu S$)	P_{PP}	250	W
Peak Pulse Current ($T_P = 8/20\mu S$)	I_{PP}	5	A
Junction Temperature	T_J	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$

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

Parameter	Symbols	Conditions	Min	Typ	Max	Units
Reverse stand-off Voltage	V_{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	26.7	-	-	V
Reverse Leakage Current	I_R	$V_R=24\text{V}$	-	-	1	μA
Clamping Voltage	V_C	$I_{PP}=5\text{A}, T_P=8/20\mu S$	-	-	40	V
Junction Capacitance	C_J	(pin1,2 to pin3) $V_R=0\text{V}, f=1\text{MHz}$	-	15	-	pF

Typical Characteristic Curves

Fig.1 Peak Pulse Power vs Pulse Time

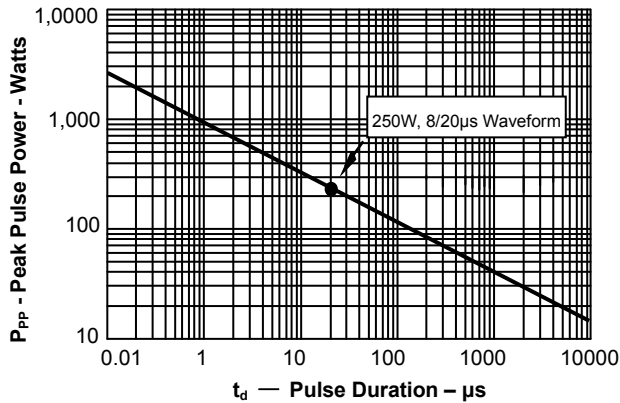


Fig.2 Pulse Waveform-8/20μs

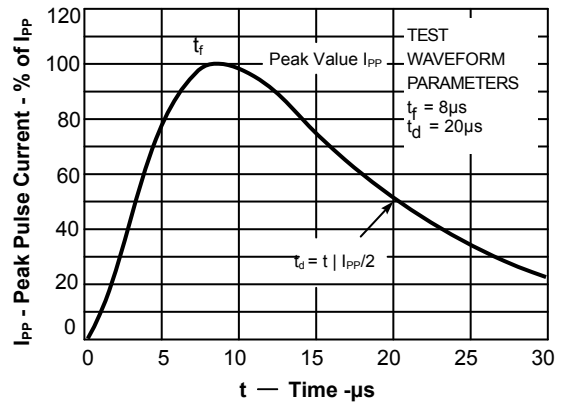


Fig.3 Power Derating Curve

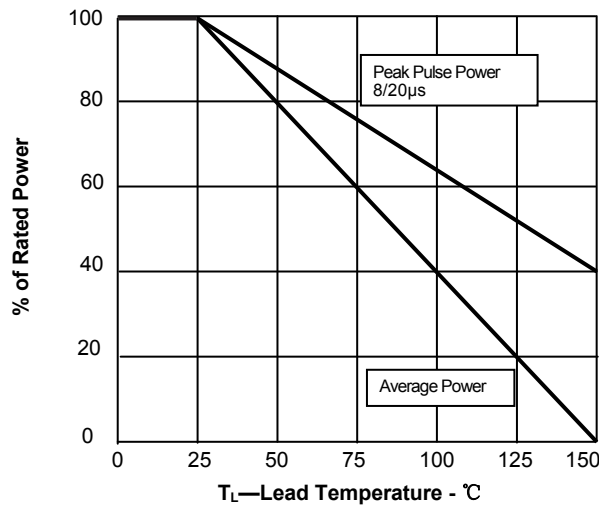
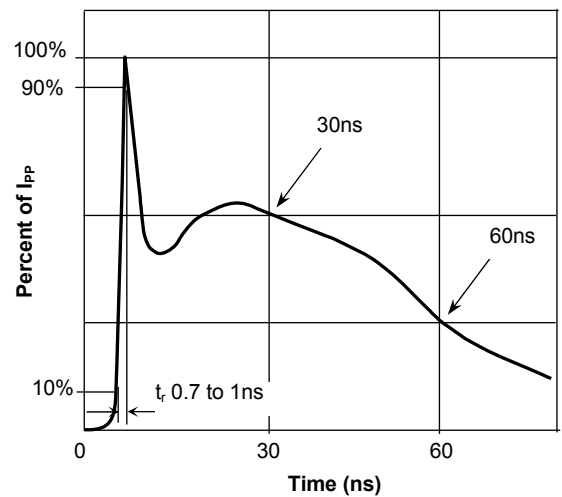
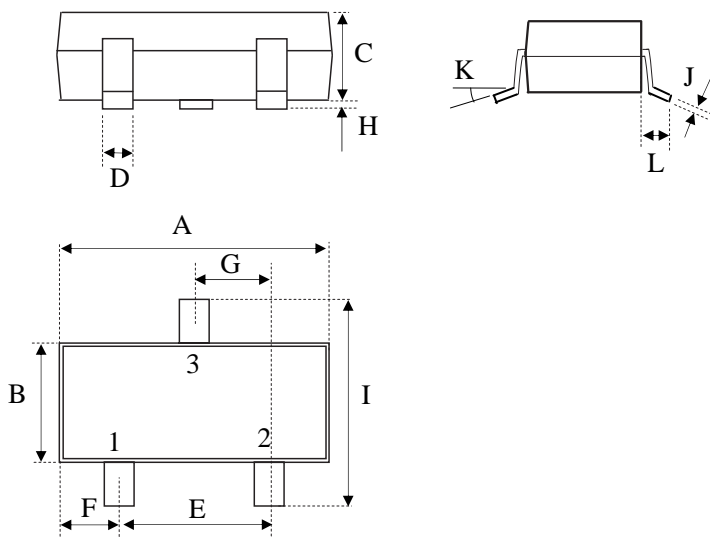


Fig.4 Pulse Waveform-ESD (IEC61000-4-2)

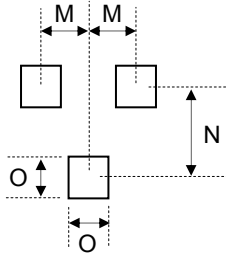


Product Dimensions



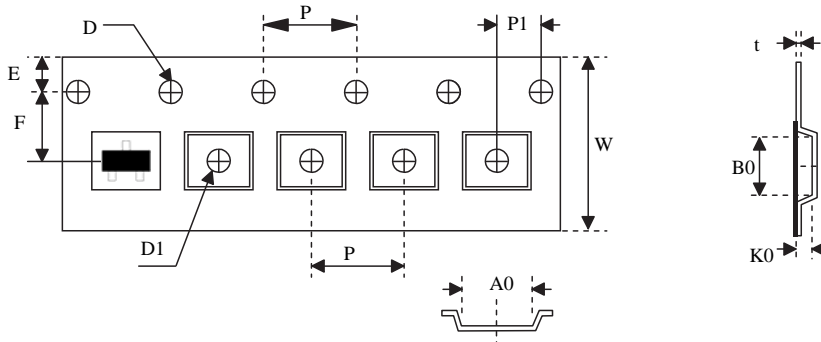
Dim	millimeters	
	min	max
A	2.80	3.04
B	1.20	1.40
C	0.89	1.11
D	0.37	0.50
E	1.78	2.04
F	0.45	0.60
G	0.89	1.02
H	0.013	0.100
I	2.10	2.50
J	0.085	0.177
K	0°	10°
L	0.45	0.60

PAD Dimensions



Dim	millimeters
O	0.85
M	0.95
N	2.00

Package Information



Unit:mm

A0	B0	K0	D1	D	E	F	W	P	P1	t
3.15±0.10	2.77±0.10	1.22±0.10	0.95~1.10	1.50~1.60	1.75±0.10	3.50±0.05	7.90~8.3	4.00±0.10	2.00±0.05	0.22±0.40