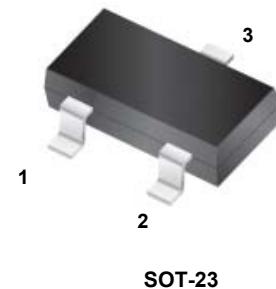
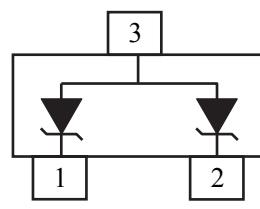


Features

- 300Watts peak pulse power ($t_p=8/20\mu s$)
- SOT-23 package
- Protects one bidirectional or two unidirectional lines
- Fast response time, typically <1ns
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 20kV$ (Air) ESD protection
- IEC 61000-4-2 $\pm 15kV$ (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection
- RoHS compliant



SOT-23



Schematic Diagram

Applications

- Cellular handsets and accessories
- Portable electronics
- Control & Monitoring systems
- Servers, notebooks and desktop pcs
- Set-top box
- Communication systems

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

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_p=8/20\mu s$)	P_{PP}	300	W
Peak Pulse Current ($T_p=8/20\mu s$)	I_{PP}	4	A
Junction Temperature	T_J	-55 To +125	°C
Storage Temperature	T_{STG}	-55 To +150	°C

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	36	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	40	-	-	V
Reverse Leakage Current	I_R	$V_{RWM}=36V, T=25^\circ C$	-	-	0.5	μA
Clamping Voltage	V_C	$I_{PP}=4A, T_p=8/20\mu s$	-	-	75	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$	-	25	-	pF

Typical Characteristic Curves

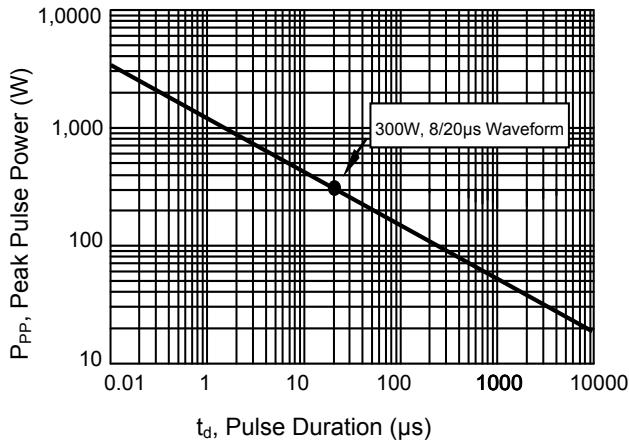


Figure 1. Peak Pulse Power vs. Pulse Time

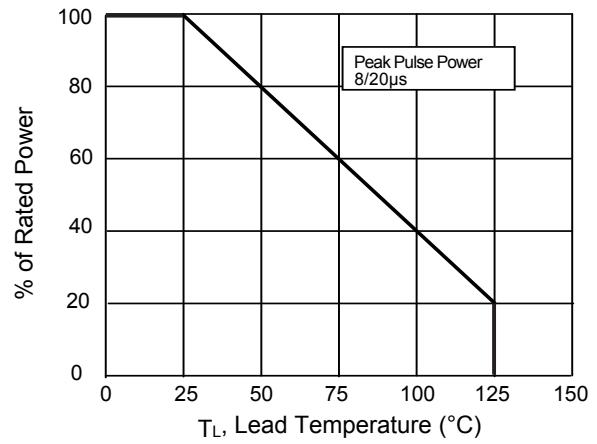


Figure 2. Pulse Derating Curve

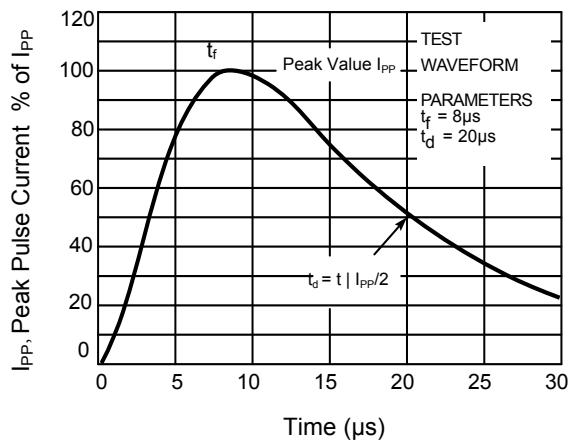


Figure 3. Pulse Waveform-8/20μs

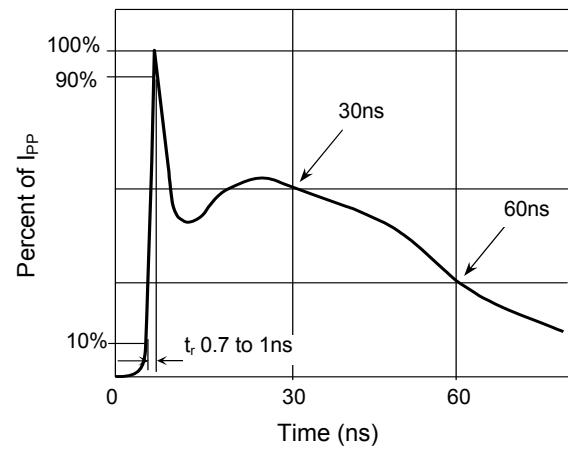
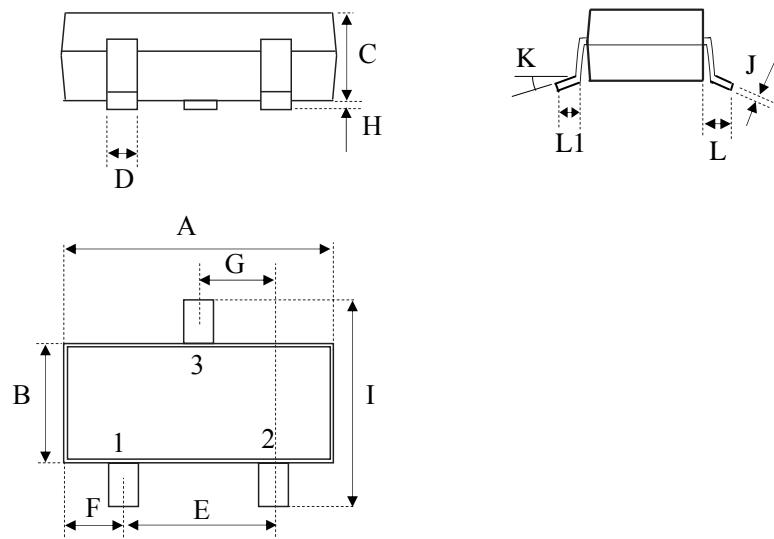


Figure 4. Pulse Waveform-ESD (IEC61000-4-2)

Package Outline Dimensions (SOT-23)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.800	3.040	0.110	0.120
B	1.200	1.400	0.047	0.055
C	0.890	1.110	0.035	0.044
D	0.370	0.500	0.015	0.020
E	1.780	2.040	0.070	0.080
F	0.450	0.600	0.018	0.024
G	0.890	1.020	0.035	0.040
H	0.013	0.100	0.001	0.004
I	2.100	2.500	0.083	0.098
J	0.085	0.177	0.003	0.007
K	0°	10°	0°	10°
L	0.450	0.600	0.018	0.024
L1	0.300	0.600	0.012	0.024

Order Information

Device	Package	Marking	Carrier	Quantity
GSEC36U025	SOT-23	DM2	Tape & Reel	3,000pcs / Reel

For more information, please contact us at: inquiry@goodarksemi.com