Features

- Bi-directional ESD protection of two lines
- 450Watts peak pulse power (tp = 8/20μs)
- Working voltage: 36V
- Junction Capacitance: 20pF(Typ)
- AEC-Q101 qualified
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 ±30kV contact ±30kV air
- IEC 61000-4-5 (Lightning) 8A (8/20μs)
- IEC 61000-4-4 (EFT) 40A (5/50ns)

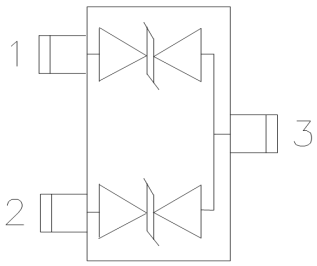
Applications

- Cellular Handsets and Accessories
- Notebooks and Handhelds
- Portable Instrumentation
- Set Top Box
- Industrial Controls
- Server and Desktop PC

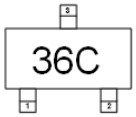
Mechanical Data

- Package:SOT-23
- Molding compound flammability rating: UL 94V-0
- RoHS/WEEE Compliant

Schematic & PIN Configuration



Ordering Information

Part Number	Package	Marking	Packing	Reel Size
SZNUP3125WTT1G-CN	SOT-23		3000 Tape & Reel	7 inches

Absolute Maximum Rating(T_A=25°C unless otherwise Specified)

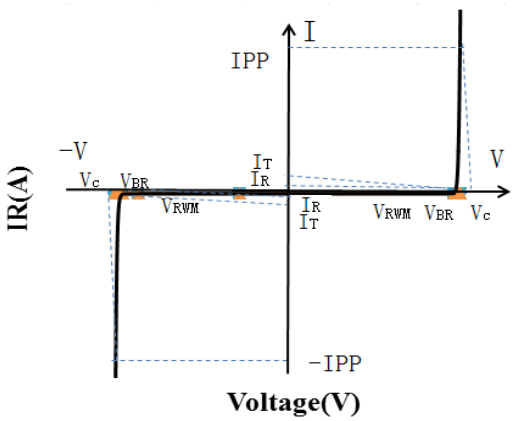
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppk	450	W
Peak Pulse Current (8/20μs)	IPP	8	A
ESD per IEC 61000−4−2 (Air) ESD per IEC 61000−4−2 (Contact)	VESD	±30 ±30	kV
Operating Temperature Range	TJ	−55 to +125	°C
Storage Temperature Range	Tstg	−55 to +150	°C

Electrical Characteristics(T_A=25°C unless otherwise Specified)

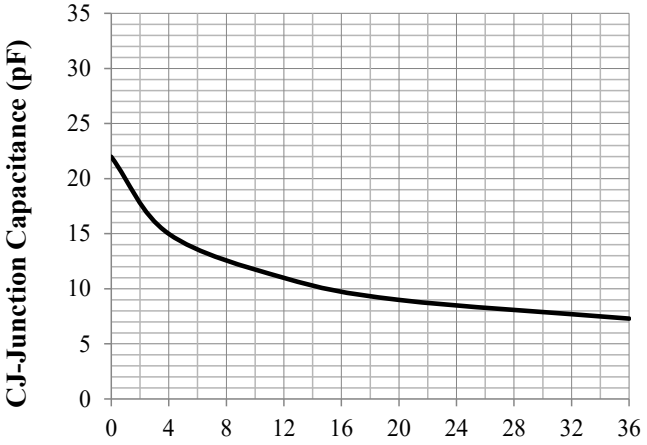
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	VRWM				36	V
Breakdown Voltage	VBR	IT = 1mA	38	41	45	V
Reverse Leakage Current	IR	VRWM =36V			0.5	μA
Clamping Voltage	VC	IPP = 1A (8 x 20μs pulse)		45	55	V
Clamping Voltage	VC	IPP = 8A (8 x 20μs pulse)		56	65	V
Junction Capacitance	CJ	VR = 0V, f = 1MHz		20	40	pF

Portion Electronics Parameter

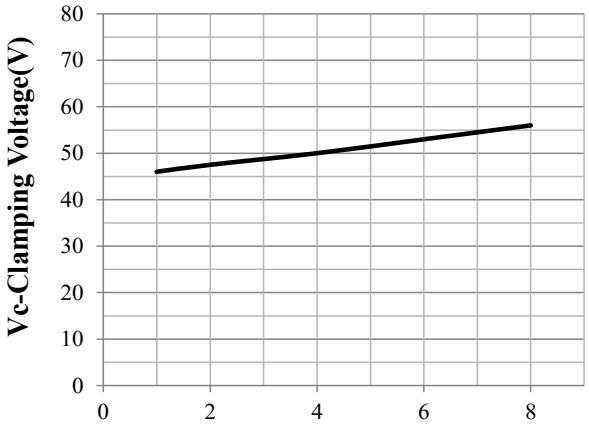
Symbo	Parameter
IT	Test Current
IPP	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @Ic



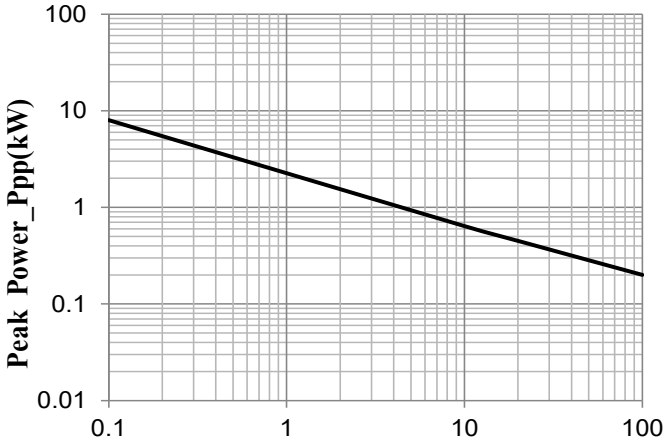
Typical Characteristics(T_A=25°C unless otherwise Specified)



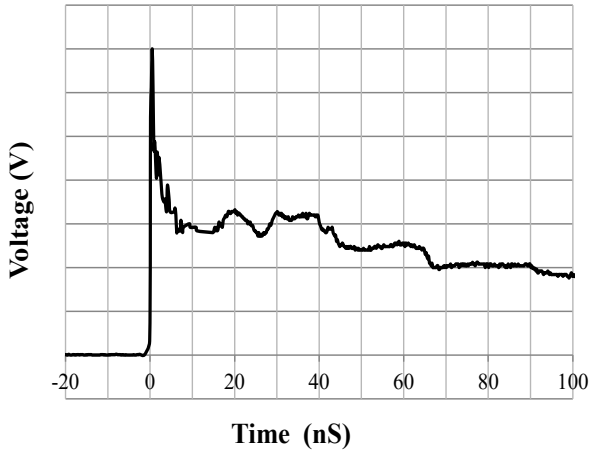
Junction Capacitance vs. Reverse Voltage



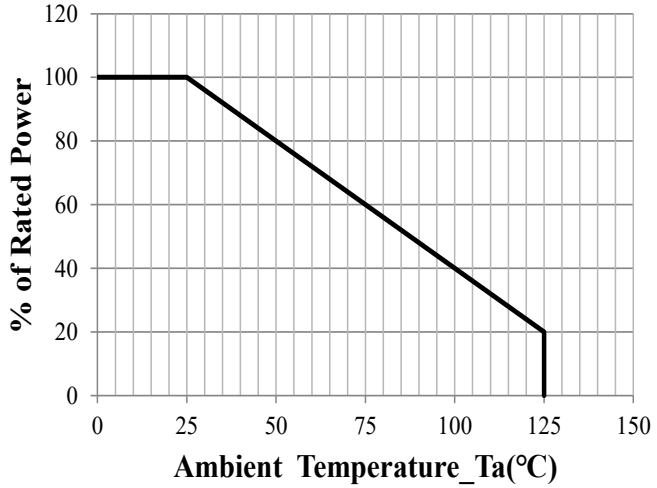
Clamping Voltage vs. Peak Pulse Current



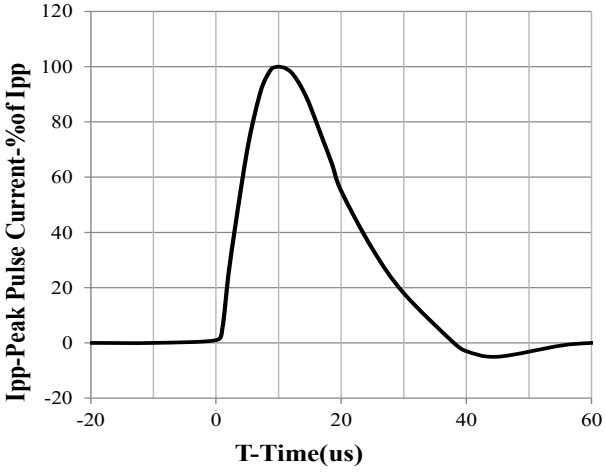
Peak Pulse Power vs. Pulse Time



IEC61000−4−2 Pulse Waveform

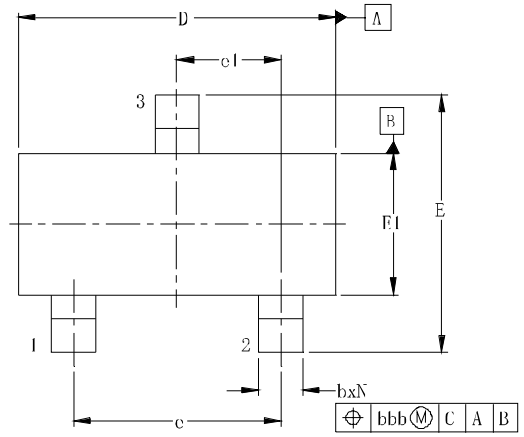


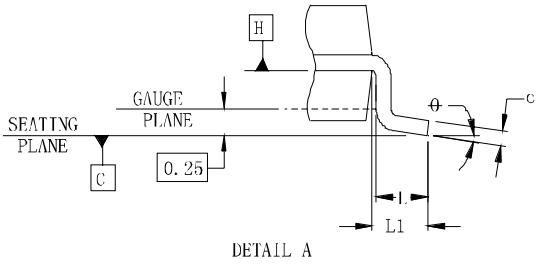
Power Derating Curve

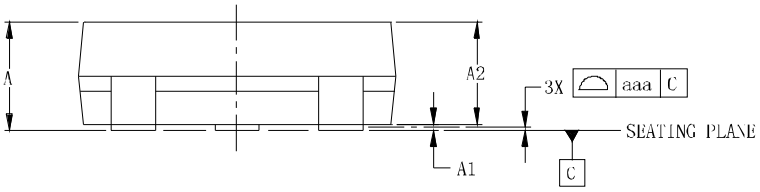


8 X 20us Pulse Waveform

SOT-23 Package Outline Drawing







DIMENSIONS						
DIM	INCHES			MILLIMETERS		
	MIN	NOM	MAX	MIN	NOM	MAX
A	.035	–	.044	0.89	–	1.12
A1	.000	–	.004	0.01	–	0.10
A2	.035	.037	.040	0.88	0.95	1.02
b	.012	–	.020	0.30	–	0.51
c	.003	–	.007	0.08	–	0.18
D	.110	.114	.120	2.80	2.90	3.04
E	.082	.093	.104	2.10	2.37	2.64
E1	.047	.051	.055	1.20	1.30	1.40
e	.075			1.90 BSC		
e1	.037			0.95 BSC		
L	.015	.020	.024	0.40	0.50	0.60
L1	.022			(0.55)		
N	3			3		
θ	0°	–	8°	0°	–	8°
aaa	.004			0.10		
bbb	.008			0.20		

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