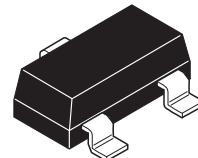
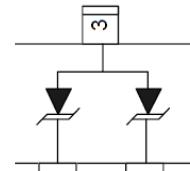


Features

- 400 Watts peak pulse power ($t_p = 8/20\mu s$)
- SOT-323 package
- Protects two unidirectional lines
- Fast response time, typically < 1 ns
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 15kV$ (Air) ESD protection
- IEC 61000-4-2 $\pm 8kV$ (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection
- IEC 61000-4-5 7A (8/20us) Surge protection
- RoHS compliant



Package: SOT-323



Schematic Diagram

Applications

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

Absolute Maximum Ratings

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

Rating	Symbols	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	400	W
Peak Pulse Current ($t_p=8/20\mu s$)	I_{PP}	7	A
Operating 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	Symbols	Conditions	Min	Typ	Max	Units
Reverse stand-off Voltage	V_{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	26.7	-	-	V
Reverse Leakage Current	I_R	$V_R=24V$	-	-	1	µA
Clamping Voltage	V_C	$I_{PP}=7A, t_p=8/20\mu s$	-	-	60	V
Junction Capacitance	C_J	(pin1,2 to pin3) $V_R=0V, f=1MHz$	-	60	-	pF



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SPES24VT323-3U
ESD Protection Diode

Typical Characteristic Curves

Fig.1 Peak Pulse Power vs Pulse Time

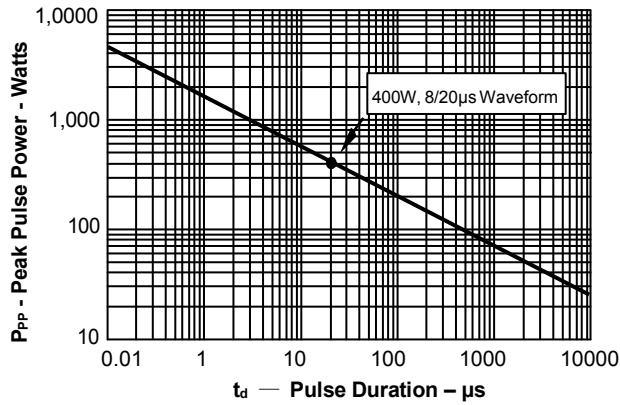


Fig.2 Pulse Waveform-8/20μs

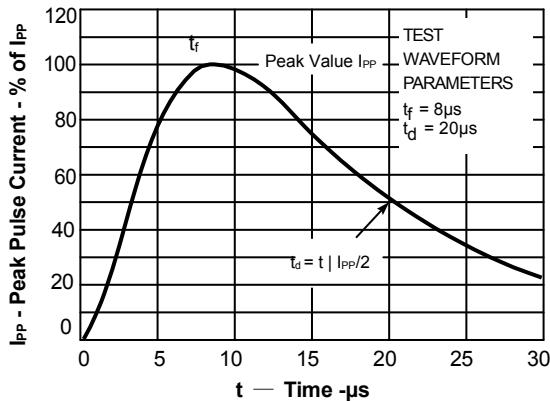


Fig.3 Power Derating Curve

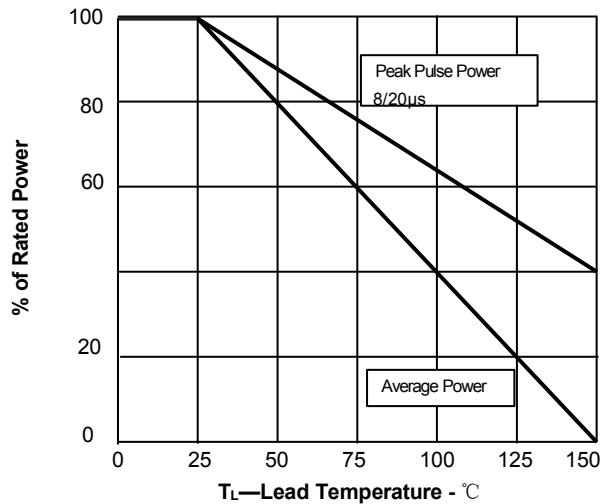
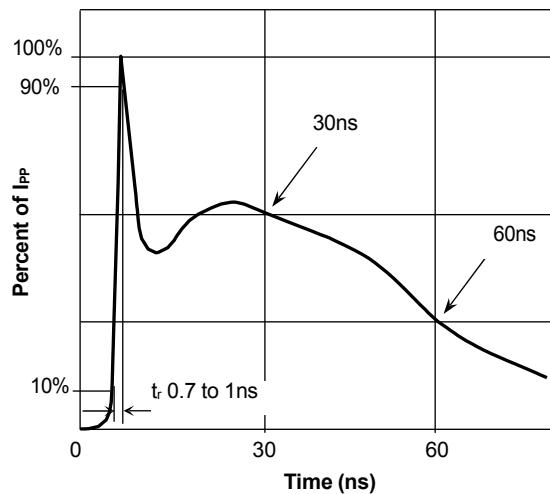
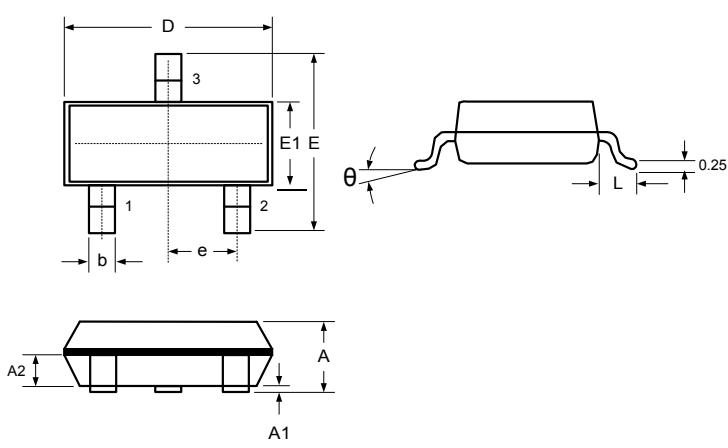


Fig.4 Pulse Waveform-ESD (IEC61000-4-2)



Product Dimensions



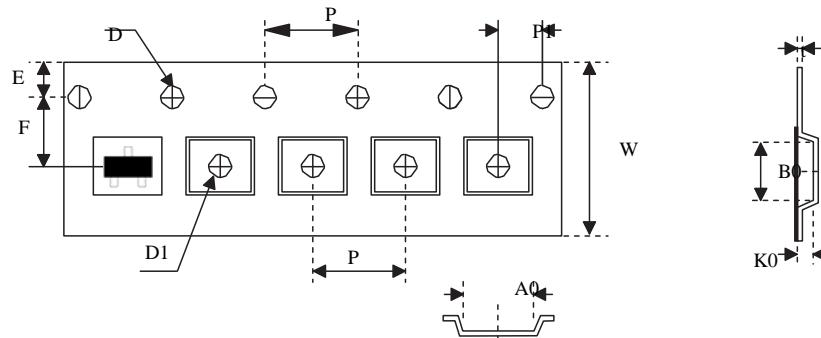
SYMBOL	DIMENSIONS			
	MILLIMETER	INCHES	MIN	MAX
A	0.900	0.035	1.100	0.043
A1	0.000	0.000	0.100	0.004
A2	0.900	0.035	1.000	0.039
D	2.000	0.079	2.200	0.087
b	0.200	0.008	0.400	0.016
E	2.150	0.085	2.450	0.096
E1	1.150	0.045	1.350	0.053
e	0.650TYP	0.026TYP		
L	0.525 REF	0.021 REF		
θ	0	0	8°	8°



STEIFPOWER
TECHNOLOGY

SPES24VT323-3U
ESD Protection Diode

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

Order Information

Device	Package	Carrier	Quantity	HSF Status
SPES24VT323-3U	SOT-323	Tape & Reel	3000pcs	RoHS compliant