

Features

- ◆ 150W peak pulse power(8/20 μ s)
- ◆ One device protects one unidirectional line
- ◆ Two devices protect two high-speed line pairs
- ◆ Ultra low leakage: nA level
- ◆ Low operating voltage: 2.8V
- ◆ Low capacitance
- ◆ Ultra low clamping voltage
- ◆ Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: ± 30 kV
 - Contact discharge: ± 30 kV
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning) 10A (8/20 μ s)
- ◆ RoHS Compliant

Ordering Information

Part Number	Qty per Reel	Reel Size
SLVU2.8S3	3000	7"

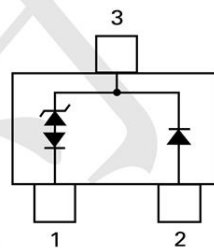
Mechanical Characteristics

- ◆ Package: SOT-23
- ◆ Lead Finish: Matte Tin
- ◆ Case Material: "Green" Molding Compound.
- ◆ UL Flammability Classification Rating 94V-0
- ◆ Moisture Sensitivity: Level 3 per J-STD-020
- ◆ Terminal Connections: See Diagram Below
- ◆ Marking Information: See Below

Applications

- ◆ Base Station
- ◆ Analog Inputs
- ◆ Switch Systems
- ◆ 10/100 Ethernet
- ◆ WAN/LAN Equipment

Dimensions and Pin Configuration



Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power(8/20μs)	Ppk	150	W
Peak Pulse Current(8/20μs)	IPP	10	A
ESD per IEC 61000-4-2 (Air)	VESD	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			2.8	V	
Punch-Through Voltage	VBR	3.0			V	IT=2μA
Reverse Leakage Current	IR		0.01	0.5	μA	VRWM = 2.8V
Clamping Voltage	VC			4	V	IPP = 1A (8 x 20μs pulse)
Clamping Voltage	VC			6	V	IPP = 5A (8 x 20μs pulse)
Clamping Voltage	VC			8	V	IPP = 10A (8 x 20μs pulse)
Junction Capacitance	CJ		5		pF	VR=0, f=1MHz

PROTECTION PRODUCTS
Typical characteristics

Fig1. 8/20 μ s Pulse Waveform

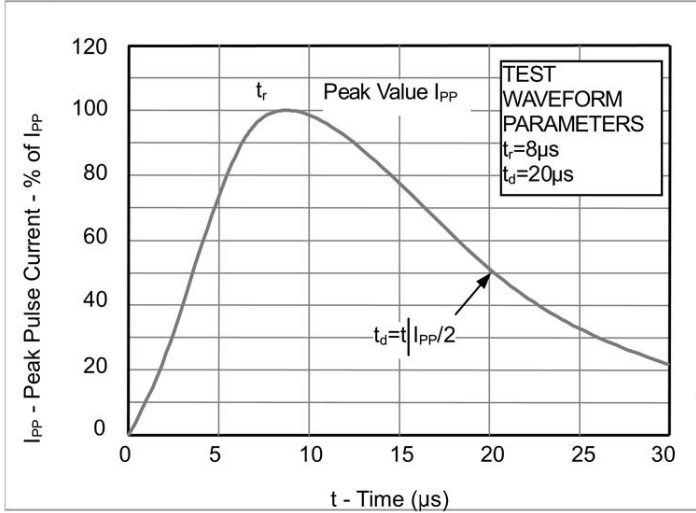


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

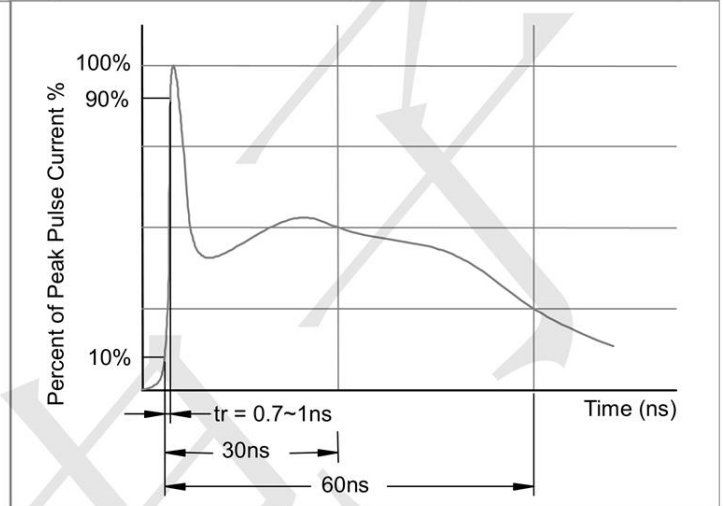
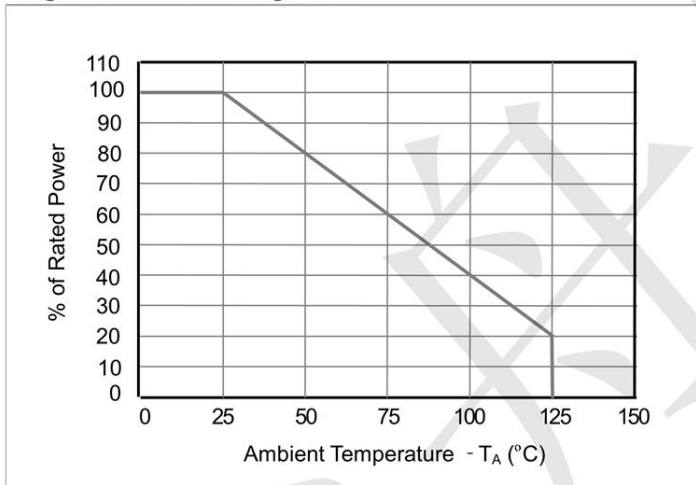
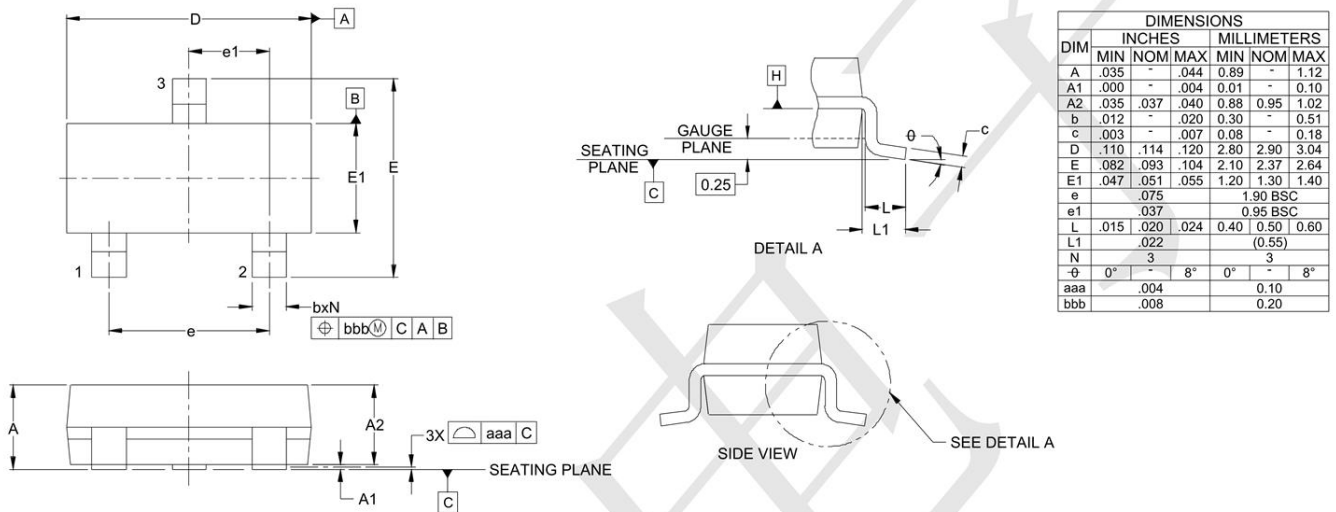


Fig3. Power Derating Curve



Outline Drawing - SOT23



Land Pattern - SOT23

