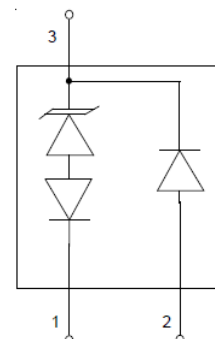


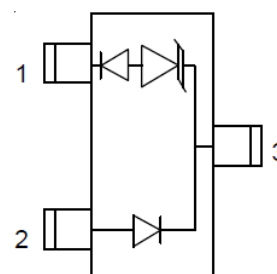
Features

- ◇ 400W (8/20 μ s) Peak Pulse Power
- ◇ Low Voltage TVS Diode for ESD and Latch-Up Protection
- ◇ SOT-23 Package
- ◇ RoHS Compliant
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Protect One Unidirectional Line
- ◇ Meet IEC61000-4-2 Level 4:
 - Contact Discharge > 30kV
 - Air Discharge > 30kV

Circuit Diagram



PIN Diagram



Applications

- ◇ 10/100 Ethernet
- ◇ Base Stations
- ◇ Switch Systems
- ◇ WAN/LAN Equipment
- ◇ Laser Diode Protection
- ◇ Desktops, Servers, Notebooks and Handhelds

Ordering information

Device	Package	Reel Size	Qty / Reel
SLVU2.8	SOT-23	7 inch	3000

Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	400	W
IPP	Peak Pulse Current	24	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	30	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	30	kV
TJ	Junction Temperature	-55 to +125	°C
TSTG	Storage Temperature	-55 to +150	°C

Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				2.8	V
VT	Trigger Voltage	IT = 2uA	3.0			V
VSB	Snap-Back Voltage	ISB = 50mA	2.8			V
IR	Reverse Leakage Current	VRWM = 2.8V			1	μA
VC	Clamping Voltage	IPP = 2A (8/20μs)			3.9	V
VC	Clamping Voltage	IPP = 5A (8/20μs)			7	V
VC	Clamping Voltage	IPP = 24A (8/20μs)			12.5	V
CJ	Capacitance	VR = 0V, f = 1MHz Pin 3 to 1 and 2			100	pF
CJ	Capacitance	VR = 0V, f = 1MHz Pin 2 to 1 (pin 3 N.C)			10	pF

Typical Performance Curves

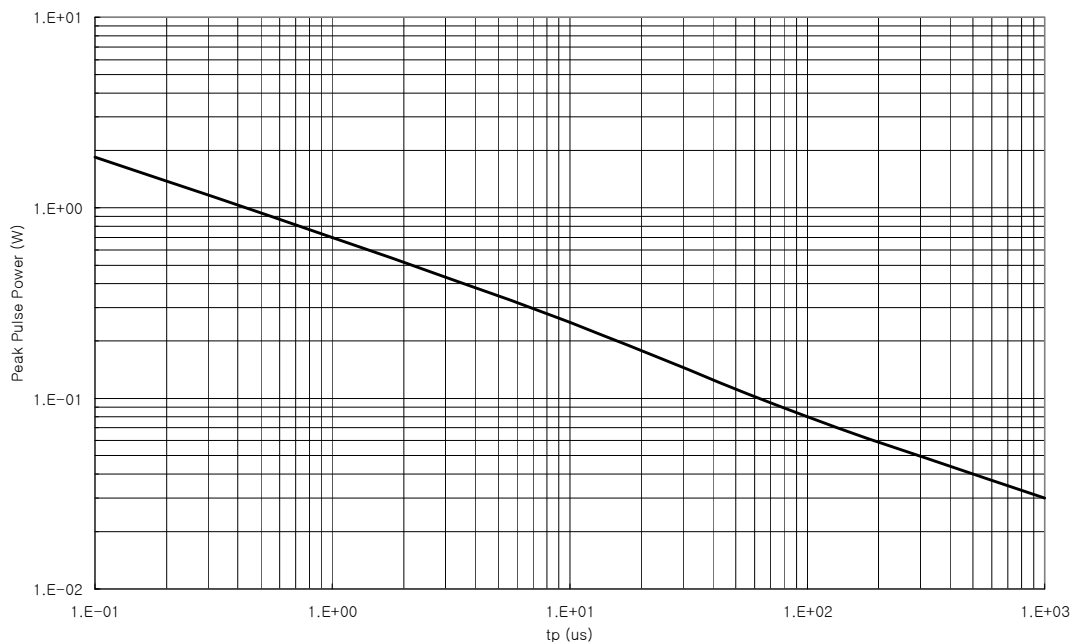


Figure 1. Peak Pulse Power Derating

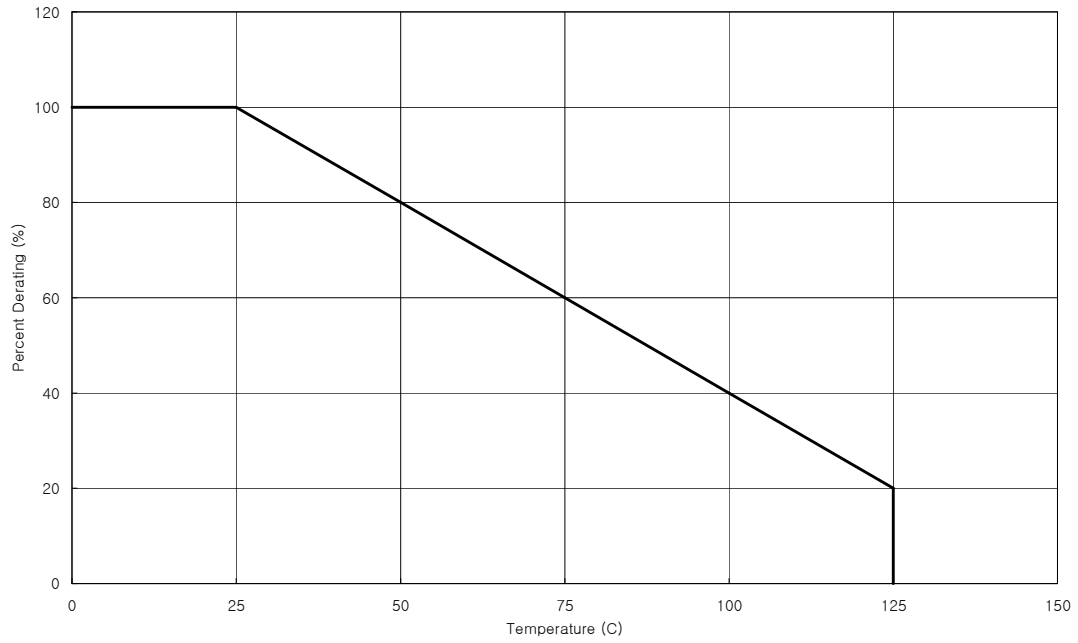


Figure 2. Peak Pulse Power Derating vs Temperature

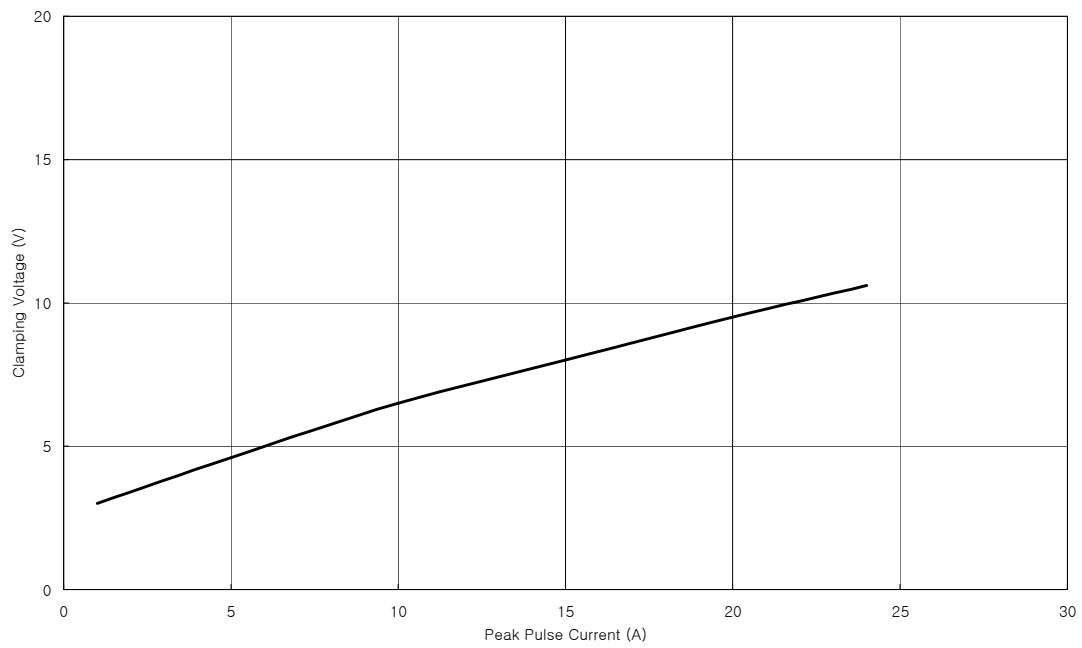
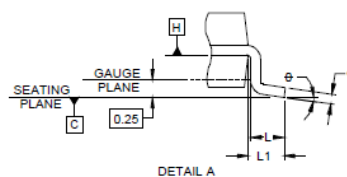
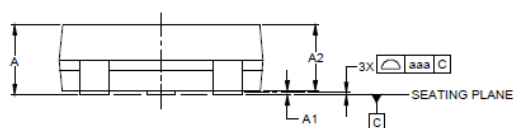
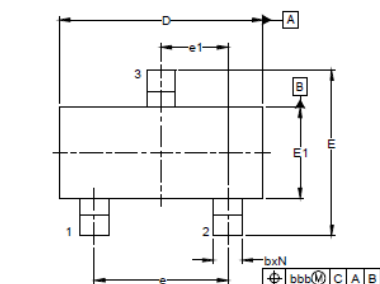


Figure 3. Peak Pulse Current vs Clamping Voltage

SOT-23 Dimension



DIM	DIMENSIONS					
	INCHES			MILLIMETERS		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.35	-	0.44	0.89	-	1.12
A1	0.00	-	0.04	0.01	-	0.10
A2	0.35	0.37	0.40	0.88	0.95	1.02
B	0.12	-	0.20	0.30	-	0.51
E	0.03	-	0.07	0.08	-	0.18
D	0.110	0.114	0.120	2.30	2.30	2.34
E	0.82	0.93	1.04	2.10	2.37	3.04
E1	0.47	0.51	0.55	1.20	1.30	1.40
E		0.75			1.90	BSIC
e1		0.37			0.95	BSIC
L	0.15	0.20	0.24	0.40	0.50	0.60
L1		0.22			0.55	
2	0°	3°	5°	0°	3°	5°
aaa		0.04			0.10	
bbb		0.08			0.20	