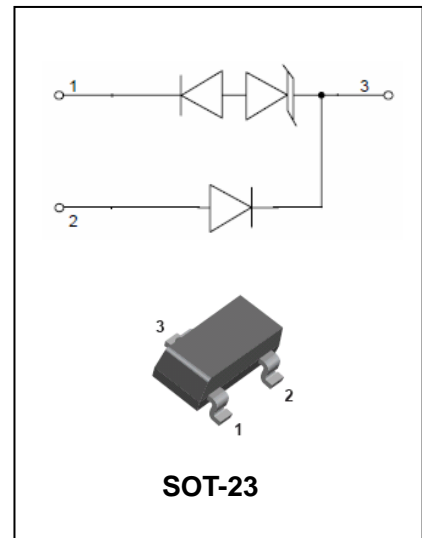


Low Voltage EPD TVS Diode

SLVU2.8

FEATURES

- 400 watts peak pulse power.(tp=8/20us)
- Transient protection for high speed data lines to
IEC 61000-4-2(ESD)15Kv(air),8kV(contact)
IEC 61000-4-4(EFT)40A(tp=5/50ns)
IEC 61000-4-5(Lighting)12A(tp=8/20us)
- One device protects one unidirectional line.
- Two devices protect two high-speed line pairs.
- Low capacitance.
- Low leakage current.
- Low operating and clamping voltages.
- Solid-state EPD TVS process technology.



APPLICATIONS

- 10/100 Ethernet.
- WAN/LAN Equipment.
- Switching Systems.
- Desktops, Servers, Notebooks & Handhelds.
- Laser Stations.
- Base Stations.

ORDERING INFORMATION

Type No.	Marking	Package Code
SLVU2.8	U2.8	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Ratings	Units
P _{PK}	Peak Pulse Power(tp=8/20us)	400	Watts
I _{PP}	Peak Pulse Current(tp=8/20us)	24	A
T _L	Lead Soldering Temperature	260(10sec.)	°C
T _J	Operating Temperature	-55 to +125	°C
T _{STG}	Storage Temperature	-55 to +150	°C



Low Voltage EPD TVS Diode

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{BR}	I _T =10μA, Pin 3 to 2	40			V
Reverse Leakage Current	I _{RD}	V _{RWM} =2.8V, T=25°C Pin 3 to 2			1	μA
Forward Voltage	V _F	I _F =1A, Pin 2 to 3			2	V
Reverse Stand-Off Voltage	V _{RWM}	Pin 3 to 1 or Pin 2 to 1			2.8	V
Punch-Through Voltage	V _{PT}	I _{PT} =2μA, Pin 3 to 1	3.0			V
Snap-Back Voltage	V _{SB}	I _{SB} =50mA, Pin 3 to 1	2.8			V
Reverse Leakage Current	I _R	V _{RWM} =2.8V, T=25°C Pin 3 to 1 or Pin 2 to 1			1	μA
Clamping Voltage	V _C	I _{PP} =2A, tp=8/20us, Pin 3 to 1			3.9	V
Clamping Voltage	V _C	I _{PP} =5A, tp=8/20us, Pin 3 to 1			7	V
Clamping Voltage	V _C	I _{PP} =24A, tp=8/20us, Pin 3 to 1			12.5	V
Clamping Voltage	V _C	I _{PP} =5A, tp=8/20us, Pin 2 to 1			8.5	V
Clamping Voltage	V _C	I _{PP} =24A, tp=8/20us, Pin 2 to 1			15	V
Junction Capacitance	C _j	Pin 3 to 1&2 (Pin 1&2 tied together) V _R =0V, f=1MHZ		70	100	pF
Junction Capacitance	C _j	Pin 2 to 1 (Pin 3 N.C.) V _R =0V, f=1MHZ		5	10	pF

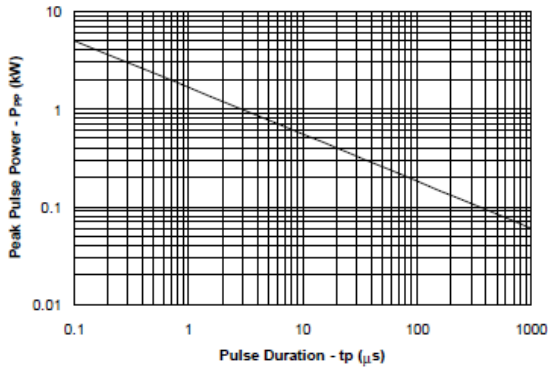


Low Voltage EPD TVS Diode

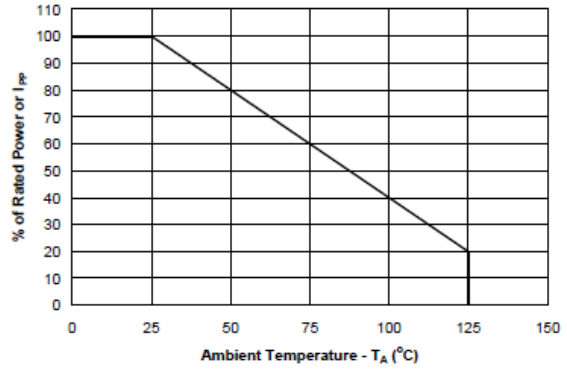
SLVU2.8

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

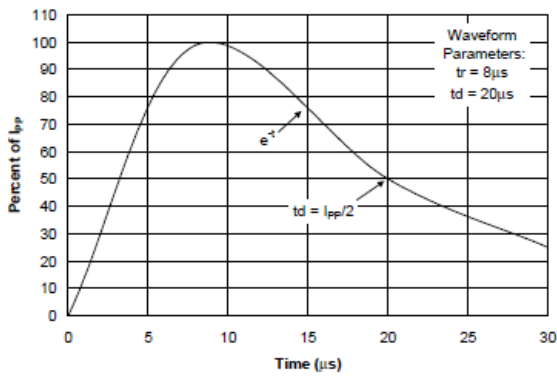
Non-Repetitive Peak Pulse Power vs. Pulse Time



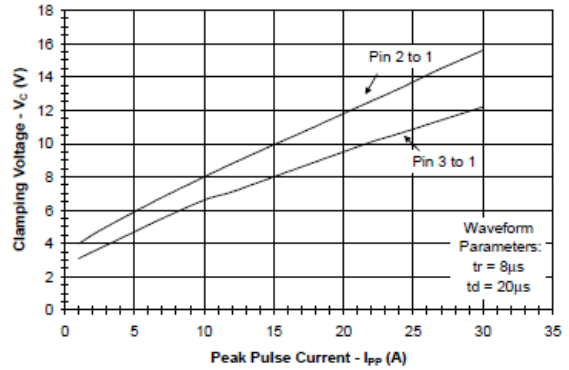
Power Derating Curve



Pulse Waveform



Clamping Voltage vs. Peak Pulse Current



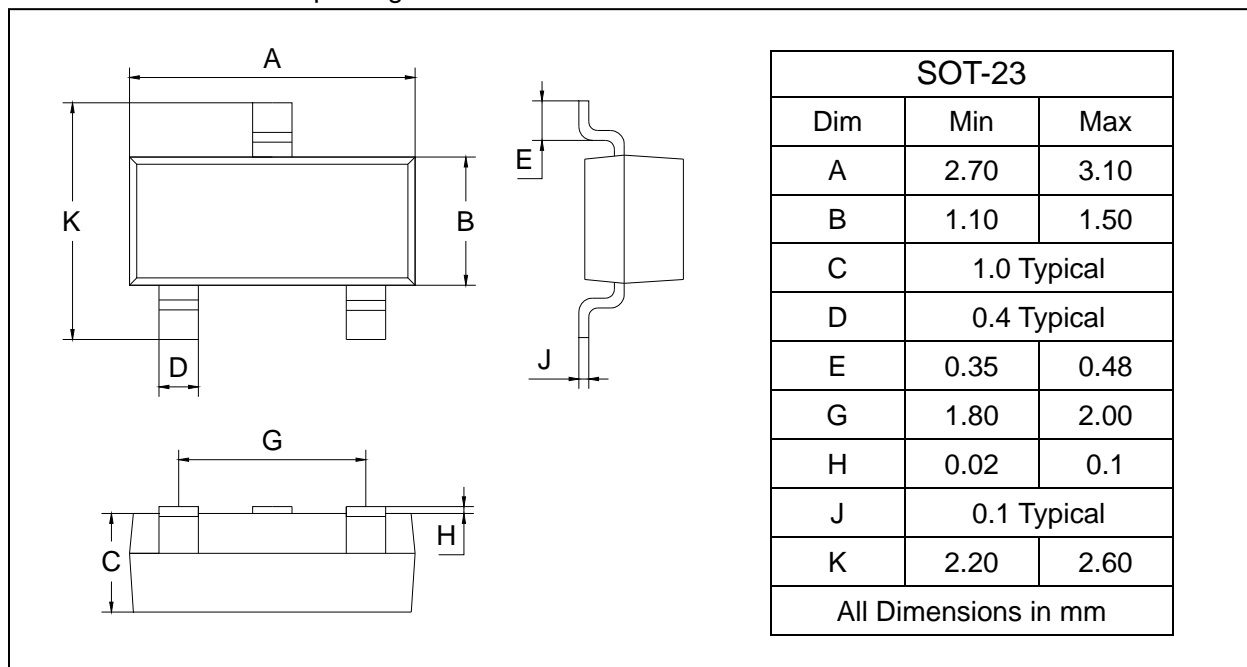
Low Voltage EPD TVS Diode

SLVU2.8

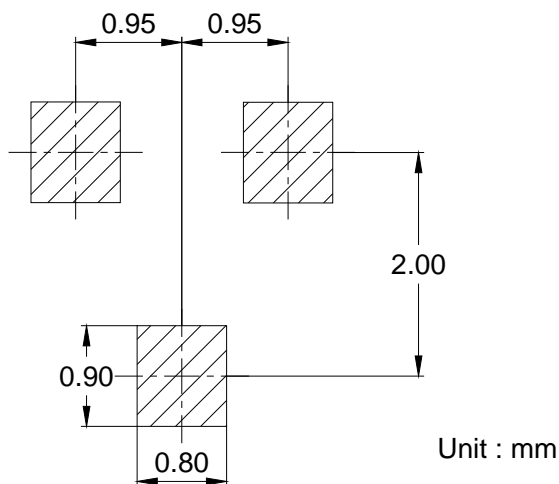
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
SLVU2.8	SOT-23	3000/Tape&Reel