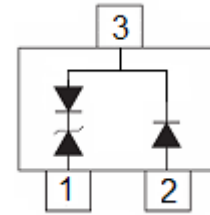


Description

The SLVU2.8 is low capacitance transient voltage suppressor for high speed data interface that designed to protect sensitive electronics from damage or latch-up due to ESD lightning, and other voltage induced transient events. All pins are rated to withstand 25kv ESD pulses using the IEC61000-4-2 contact discharge method, which can meet the requirement of level 4.



Feature

- 500W peak pulse power ($t_p = 8/20\mu s$)
- SOT-23 package
- Working voltage: 2.8V
- Low clamping voltage
- Low capacitance

Applications

- Cellular handsets and accessories
- Portable electronics
- LAN/WAN equipment
- High speed data lines
- Fire wire

Electrical characteristics per line@(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-off Voltage	V_{RWM}				2.8	V
Reverse Breakdown Voltage	V_{BR}	$I_t = 1mA, \text{pin3 to pin1}$	3.0	4.0		V
Reverse Leakage Current	I_R	$V_{RWM} = 2.8V, T = 25^\circ C$			1	μA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p = 8/20\mu s$			6.0	V
Clamping Voltage	V_C	$I_{PP} = 45A, t_p = 8/20\mu s$			22.0	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz, \text{pin1 and 2}$		3.0	4.0	pF

Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$)	P_{pp}	500	W
Operating Temperature	T_J	-55 to +150	$^\circ C$
Storage Temperature	T_{STG}	-55 to +150	$^\circ C$

Typical Characteristics

FIGURE 1
NON-REPETITIVE PEAK PULSE POWER
VS. PULSE TIME

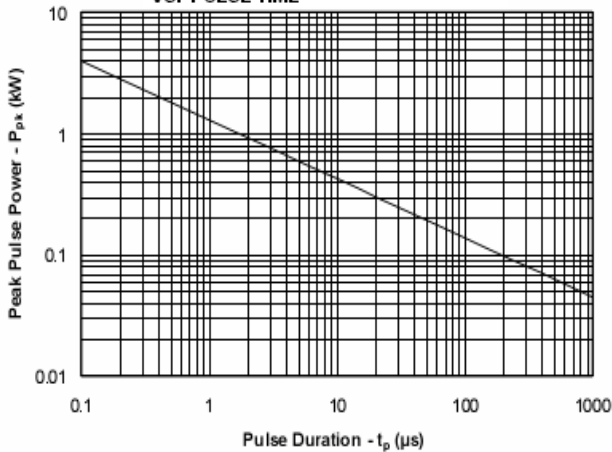


FIGURE 2
PULSE WAVE FORM

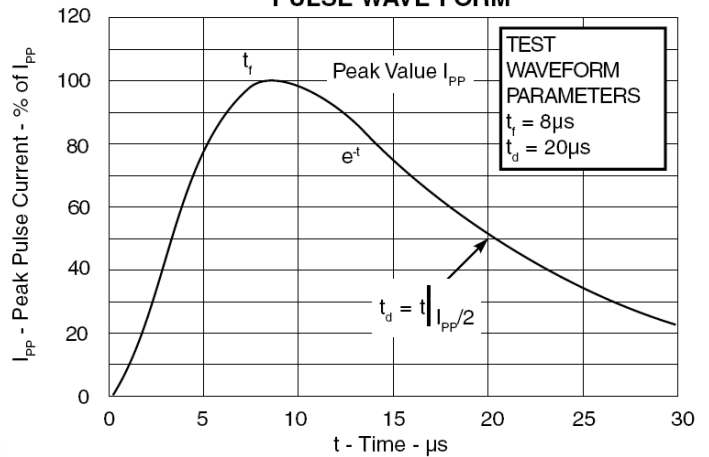
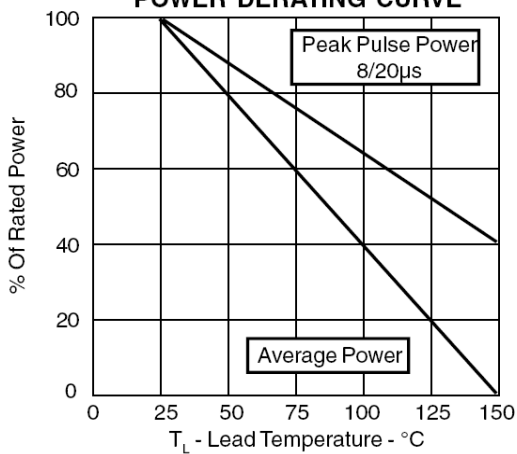


FIGURE 3
POWER DERATING CURVE




Product dimension

PACKAGE OUTLINE

SOT-23

PACKAGE DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.80	3.04	0.1102	0.1197
B	1.20	1.40	0.0472	0.0551
C	0.89	1.11	0.0350	0.0440
D	0.37	0.50	0.0150	0.0200
G	1.78	2.04	0.0701	0.0807
H	0.013	0.100	0.0005	0.0040
J	0.085	0.177	0.0034	0.0070
K	0.45	0.60	0.0180	0.0236
L	0.89	1.02	0.0350	0.0401
S	2.10	2.50	0.0830	0.0984
V	0.45	0.60	0.0177	0.0236


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