SESDA6V8UL

2-Line, Ultra-low Capacitance, Uni-directional TVS

Transient Voltage Suppressors

General Description

The SESDA6V8UL is a transient voltage suppressors (TVS) which provide a very high level protection for sensitive electronic components that may be subjected to electrostatic discharge (ESD). It isdesigned to replace multilayer varistors (MLV) in consumer equipments applications such as mobilephone, notebook, PAD, STB, LCD TV etc..

Applications

- Computers/Mobilephone
- PAD/STB
- LCD TV

Features

- Working voltage : 5V
- Small package
- Peak power (tp=8/20us) : 50W
- Low leakage current

Complies with the following standards

IEC61000-4-2

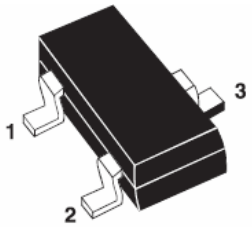
Level 4 15 kV (air discharge)

8 kV(contact discharge)

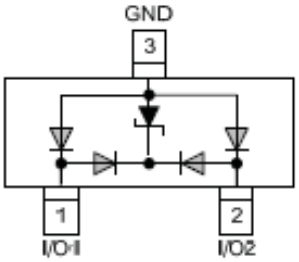
MIL STD 883E - Method 3015-7 Class 3

25 kV HBM (Human Body Model)

Functional diagram



SOT-23

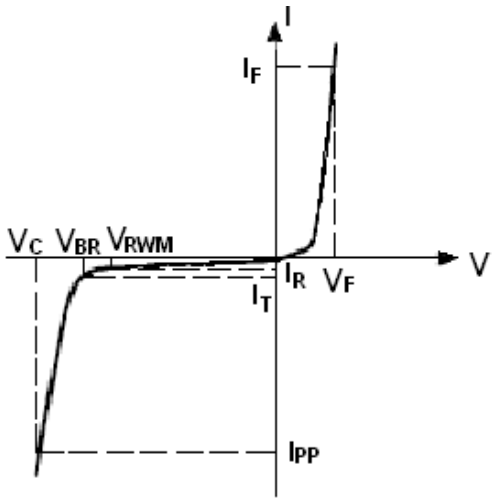


Absolute Ratings (T_{amb}=25°C)

Symbol	Parameter	Value	Units
P_{PP}	Peak Pulse Power (t_p = 8/20μs)	50	W
T_L	Maximum lead temperature for soldering during 10s	260	°C
T_{stg}	Storage Temperature Range	-55 to +155	°C
T_j	Maximum junction temperature	150	°C
Ipp	Peak Pulse Current (t_p = 8/20μs)	4	A
V_{PP}	Electrostatic discharge IEC61000-4-2 air discharge IEC61000-4-2 contact discharge	 15 8	kV

Electrical Parameter

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
I_T	Test Current
V_{BR}	Breakdown Voltage @ I_T

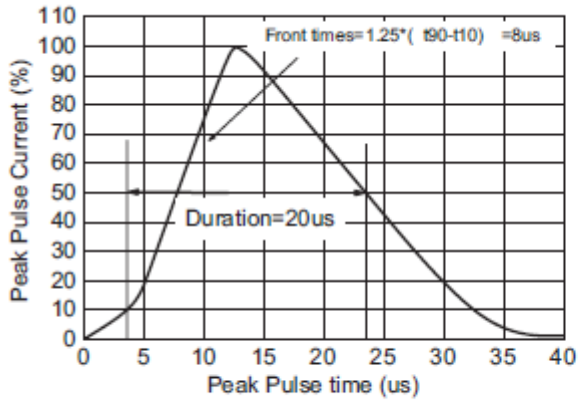


Electrical Characteristics

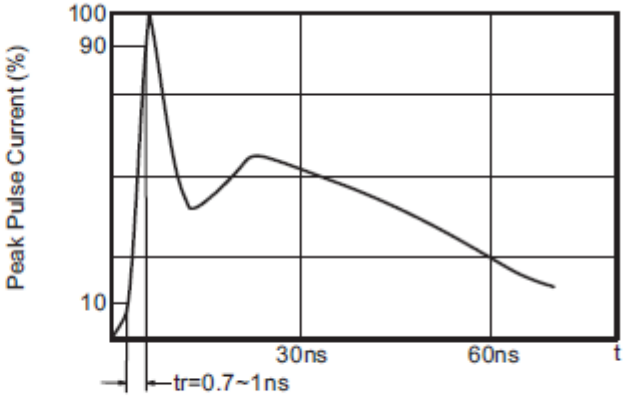
Part Numbers	V_{BR}			I_T	V_{RWM}	I_R	C
	Min.	Typ.	Max.				Typ. 0v bias
	V	V	V	mA	V	μA	pF
SESDA6V8UL	6.1	7.0	8.5	1	5.0	1	0.8

1).8/20 waveform used. (see fig2.)

Typical Characteristics

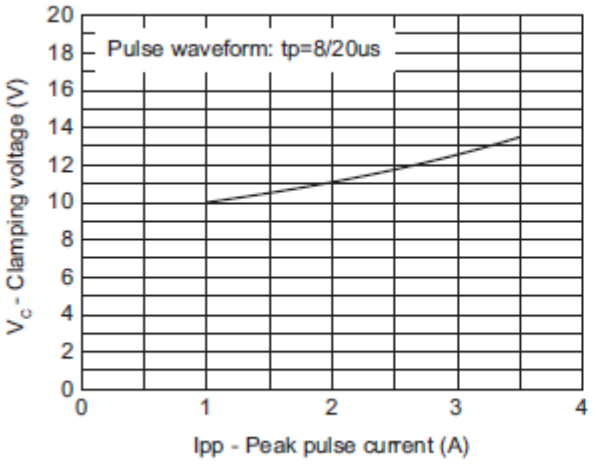


8/20us waveform

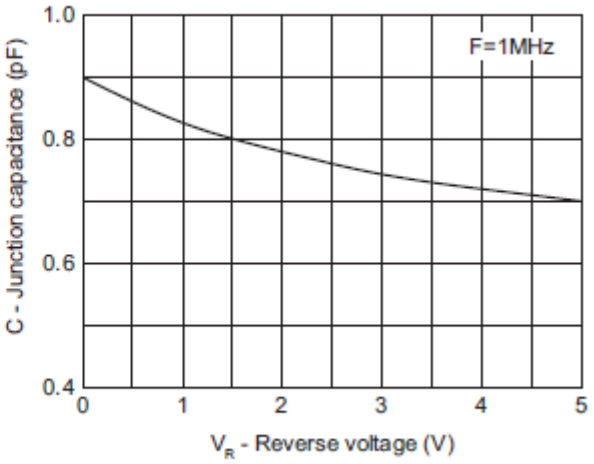


IEC61000-4-2 waveform

Typical characteristics (Ta=25°C, unless otherwise noted)

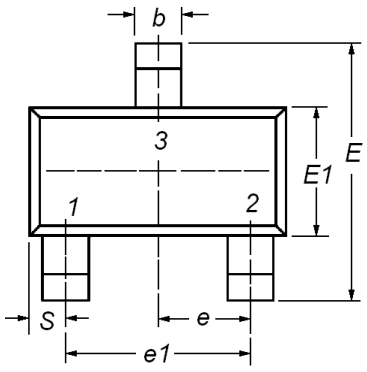


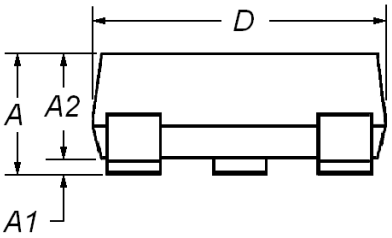
Clamping voltage vs. Peak pulse current



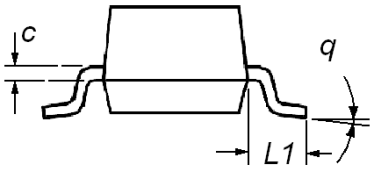
Capacitance vs. Reveres voltage

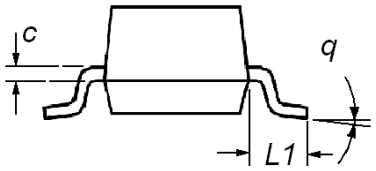
SOT-23 mechanical data





Dim	Millimeters		
	Min	TYP	Max
A	1.00	1.20	1.40
A1	0	0.05	0.10
A2	1.00	1.15	1.30
b	0.35	0.40	0.50
c	0.10	0.15	0.20
D	2.70	2.90	3.10
E	2.40	2.60	2.80
E1	1.40	1.50	1.60
e	0.85	1.00	1.15
e1	1.80	1.90	2.00
L1	0.40	.	
q	0°	5°	10°
S	0.45	0.50	0.55





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