



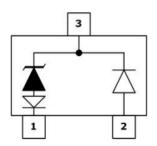
# Product data sheet

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SOT-23

## **Features**

- Ultra low leakage: nA level
- Operating voltage: 2.8V
- Low clamping voltage
- Complies with following standards:
  - IEC 61000-4-2 (ESD) immunity test
    Air discharge: ±15kV
    Contact discharge: ±8kV
  - IEC61000-4-4 (EFT) 40A (5/50ns)
  - IEC61000-4-5 (Lightning) 24A (8/20µs)
- RoHS Compliant

# **Applications**

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports
- 10/100 Ethernet

# **Mechanical Characteristics**

- Package: SOT-23
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel:3,000pcs
- Reel Size:7inch

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

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20µs)	Ррр	400	W
ESD per IEC 61000-4-2 (Air)		±15	Kir
ESD per IEC 61000-4-2 (Contact)	Vesd	±8	Kv
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтј	-55 to +150	°C



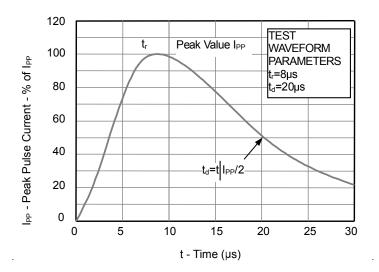


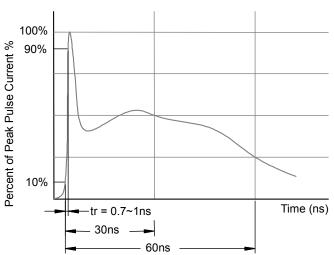
# Electrical Characteristics(TA=25°C unless otherwise specified)

		V <sub>RWM</sub>	V <sub>BR</sub>	Iτ	Vc @1A	@1A		Vc		IR	С
P/N	Marking	(V)	(V)	(mA)				(Max)	(@A)	μΑ (Max)	(Pf) (Typ.)
SLVU2.8-MS	U2.8	2.8	3	1	7	15	24	1	5		

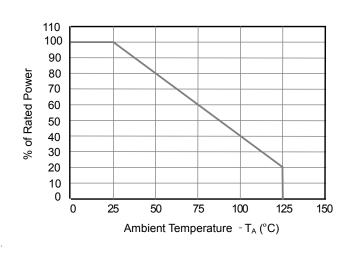
# **Characteristic Curves**

#### Fig1. 8/20 $\mu$ s Pulse Waveform







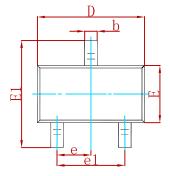


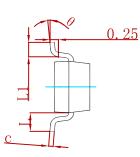
#### Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

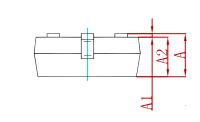




## PACKAGE MECHANICAL DATA

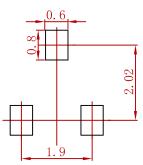






Sumb al	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
А	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950	)TYP	0.037	7 TYP	
e1	1.800	2.000	0.071	0.079	
Ĺ	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

### Suggested Pad Layout



Note:

Controlling dimension:in millimeters.
 General tolerance:± 0.05mm.
 The pad layout is for reference purposes only.

#### **REEL SPECIFICATION**

P/N	PKG	QTY
SLVU2.8-MS	SOT-23	3000



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