

DESCRIPTION

The SGSLVU2.8-4 is an ultra low capacitance TVS array that provides two line pairs of protection. This device protects high-frequency applications such as voice, video and data related systems and is designed to minimize the effects of high overshoot voltage experienced during and ESD event. This device has an in-line design, which reduces lead inductance thus providing lower overshoot voltage.

The SGSLVU2.8-4 meets IEC 61000-4-2, IEC 61000-4-4 and IEC 61000-4-5 requirements. Packaged in an SO-8 configuration, this device is rated for 400 Watts Peak Pulse Power, for an 8/20 μ s waveform.

FEATURES

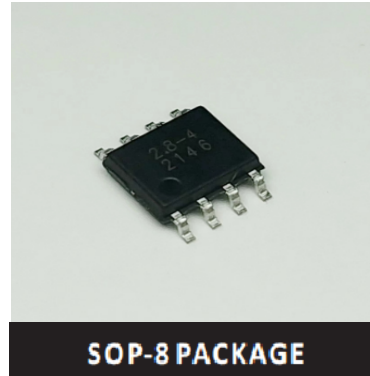
- >400 Watts Peak Pulse Power per Line (tp=8/20 μ s)
- >Protects two line pairs (four lines)
- >Low capacitance
- >RoHS Compliant

APPLICATIONS

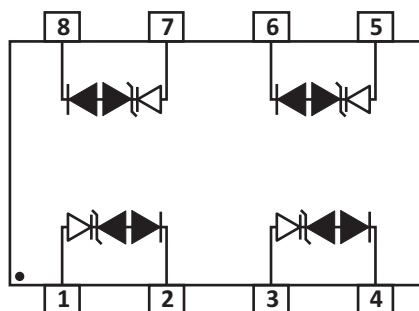
- >10/100/1000 Ethernet
- >WAN/LAN Equipment
- >Test & Measurement Equipment
- >Switching Systems
- >Instrumentation
- >Audio/Video Inputs

IEC COMPATIBILITY

- >IEC61000-4-2 (ESD) \pm 15kV (air), \pm 8kV (contact)
- >IEC61000-4-4 (EFT) 40A (5/50ns)
- >IEC61000-4-5 (Lightning) 24A (8/20 μ s)



PIN CONFIGURATIONS



MAXIMUM RATINGS @ 25°C UNLESS OTHERWISE SPECIFIED

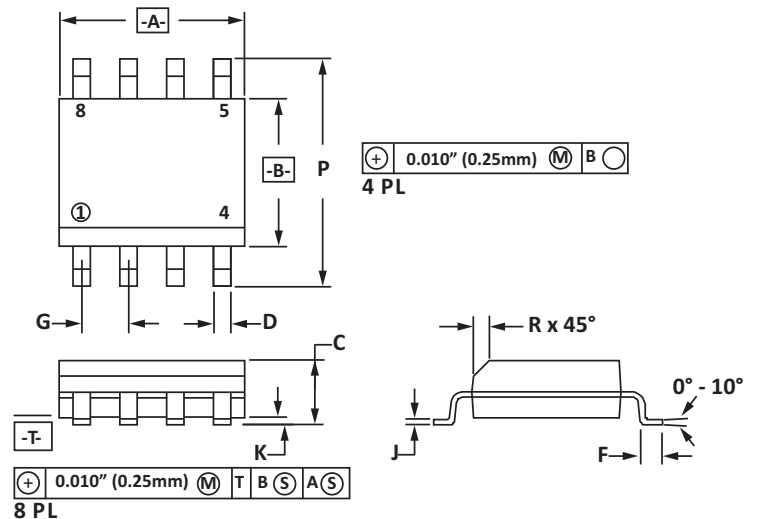
PARAMETER	SYMBOL	VALUE	UNIT
Peak Pulse Power (tp=8/20μs waveform)	PPP	400	W a s
Lead Soldering Temperature	TL	260(10 sec.)	°C
Operang Temperature Range	TJ	-55~150	°C
Storage Temperature Range	TSTG	-55~150	°C

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C UNLESS OTHERWISE SPECIFIED

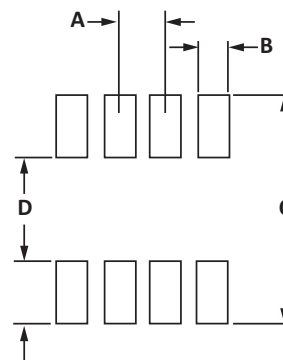
PART NUMBER	DEVICE MARKING	VRWM (V) Max.	VB (V) Min.	IT (mA)	Vc @5A Max.	Vc		IR (uA) Max.	CT (pF) Max.
						Max.	@A		
SGSLVU2.8-4	SLVU 2.8-4	2.8	3.0	1	8.5	15	24	1	3

SOP-8 PACKAGE INFORMATION
OUTLINE DIMENSIONS

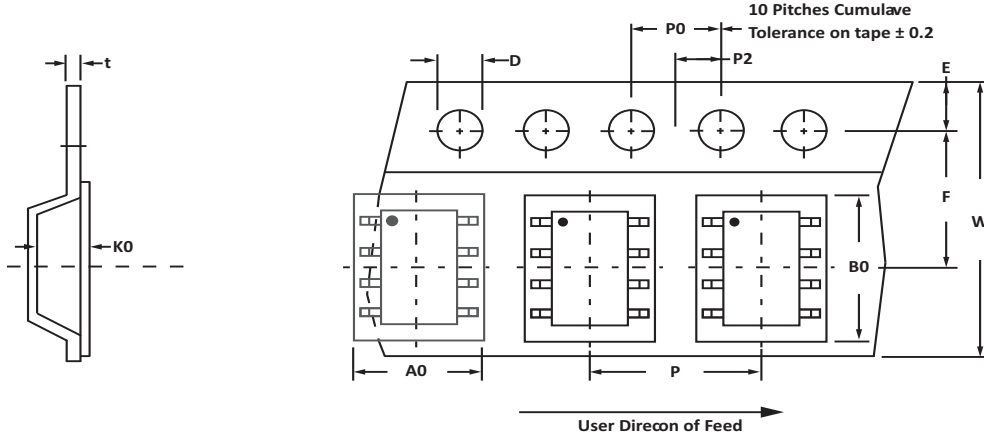
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	4.80	5.00	0.189	0.196
B	3.80	4.00	0.150	0.157
C	1.35	1.75	0.054	0.068
D	0.35	0.49	0.014	0.019
F	0.40	1.25	0.016	0.049
G	1.27 BSC		0.05 BSC	
J	0.18	0.25	0.007	0.009
K	0.10	0.25	0.004	0.008
P	5.80	6.20	0.229	0.244
R	0.25	0.50	0.010	0.019


PAD LAYOUT DIMENSIONS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.14	1.40	0.045	0.055
B	0.64	0.89	0.025	0.035
C	6.22	-	0.245	-
D	3.94	4.17	0.155	0.165
E	1.02	1.27	0.040	0.050



TAPE AND REEL



SPECIFICATIONS

REEL DIA.	TAPE WIDTH	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")	12mm	6.50 ± 0.10	5.40 ± 0.10	2.00 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	5.50 ± 0.05	12.0 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	0.25

NOTES

1. Dimensions are in millimeters.
2. Surface mount product is taped and reeled in accordance with EIA-481.
3. Suffix -T7 = 7" Reel - 1,000 pieces per 12mm tape.

ORDERING INFORMATION

BASE PART NUMBER (xx = Voltage)	LEAD FREE SUFFIX	TAPE SUFFIX	QTY/REEL	REEL SIZE	TUBE QTY
SGSLVU2.8-4	-LF	-T7	1,000	7"	n/a

This device is only available in a Lead-Free configuraon.

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[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)