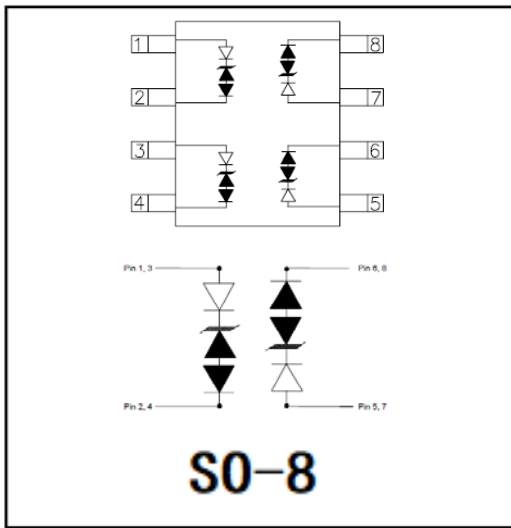
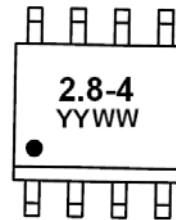


## ESD Protection Diode



### Features

- Protects two line pairs (four lines)
- Ultra low clamping voltage
- Low operating voltage: 2.8V
- Moisture Sensitivity: Level 3 per J-STD-020
- JEDEC SO-8 package
- Marking:



2.8-4= Device Marking Code  
YYWW = Date Code  
Dot denotes Pin1

### ■ Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Operating Temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C
IEC61000-4-2(ESD)Air	V <sub>ESD</sub>	±30	KV
IEC61000-4-2(ESD)Contact		±30	KV
Peak Pulse Power(8/20μs)	P <sub>PP</sub>	600	W
Peak Pulse Current(8/20μs)	I <sub>PP</sub>	30	A

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Working Voltage	V <sub>RWM</sub>	V				2.8
Reverse Leakage Current	I <sub>R</sub>	uA	V <sub>RWM</sub> =2.8V		0.001	1
Breakdown Voltage	V <sub>(BR)</sub>	V	I <sub>T</sub> =2uA	3		
	V <sub>(SB)</sub>	V	I <sub>SB</sub> =50mA	3		
Clamping Voltage	V <sub>C</sub> <sup>(1)</sup>	V	I <sub>PP</sub> =5A			8.5
Clamping Voltage	V <sub>C</sub>	V	I <sub>PP</sub> =25A			18
Clamping Voltage	V <sub>C</sub>	V	I <sub>PP</sub> =30A			20
Junction Capacitance	C <sub>J</sub>	pF	V <sub>R</sub> =0V, f=1MHz		2	3

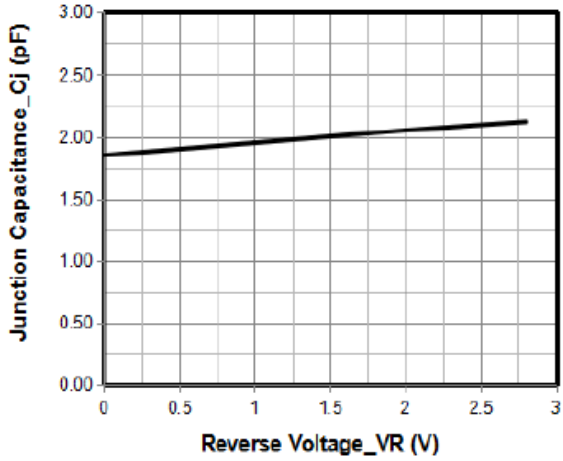


# SLVU2.8-4

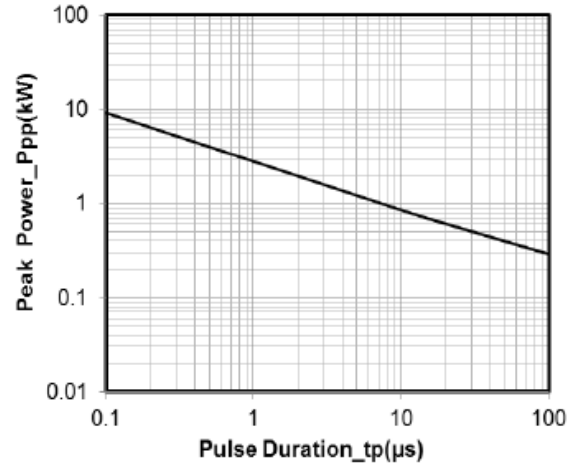
## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SLVU2.8-4
Thermal Resistance(Typical)	R <sub>θJ-A</sub>	°C/W	184
	R <sub>θJ-C</sub>	°C/W	74

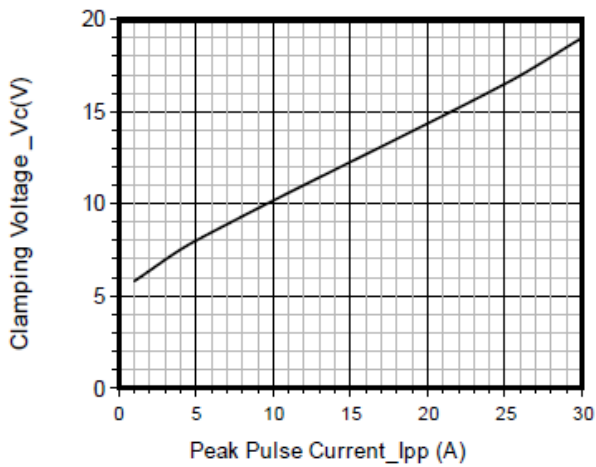
## ■ Characteristics (Typical)



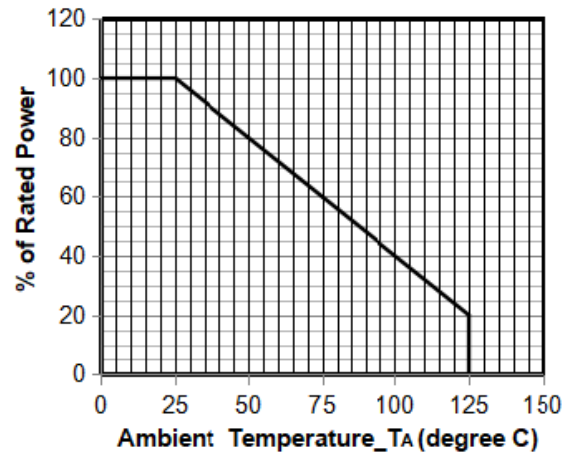
Junction Capacitance vs. Reverse Voltage



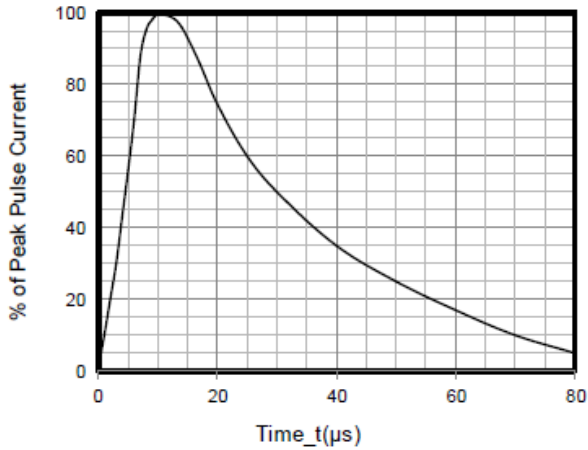
Peak Pulse Power vs. Pulse Time



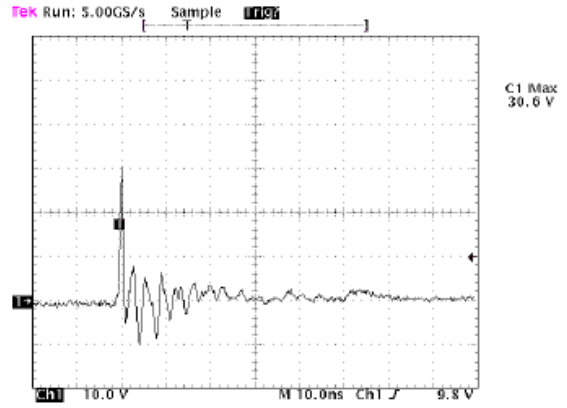
Clamping Voltage vs. Peak Pulse Current



Power Derating Curve



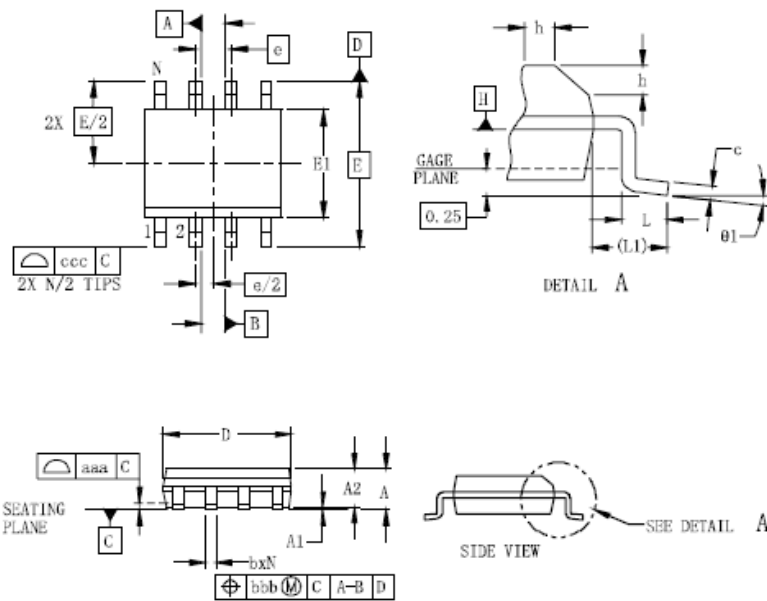
8 X 20µs Pulse Waveform



Note: Data is taken with a 10x attenuator

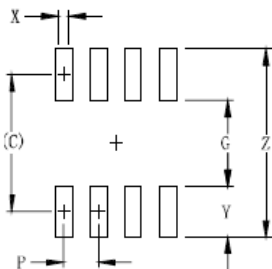
ESD Clamping Voltage  
8 kV Contact per IEC61000-4-2

## Outline Dimensions



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.35		1.75	0.053		0.069
A1	0.10		0.25	0.004		0.010
A2	1.25		1.65	0.049		0.065
b	0.31		0.51	0.012		0.020
c	0.17		0.25	0.007		0.010
D	4.80	4.90	5.00	0.189	0.193	0.197
E1	3.80	3.90	4.00	0.150	0.154	0.157
E	6.00 BSC			0.236 BSC		
e	1.27 BSC			0.050 BSC		
h	0.25		0.50	0.010		0.020
L	0.40	0.72	1.04	0.016	0.028	0.041
L1	(1.04)			(0.041)		
N	8			8		
theta1	0°		8°	0°		8°
aaa	0.10			0.004		
bbb	0.25			0.010		
ccc	0.20			0.008		

## Soldering Footprint



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
C	(5.20)	0.205
G	3.00	0.118
P	1.27	0.050
X	0.60	0.024
Y	2.20	0.087
Z	7.40	0.291



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