MSKSEMI















ESD

TVS

TSS

MOV

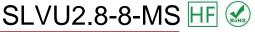
GDT

PLED

Brodnet data speet

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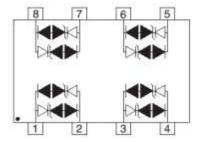








SOP-8



Features

- 400 W Peak Pulse Power per Line (tp=8/20μs)
- Protects four line pairs
- Low capacitance
- Low Leakage Current.
- Low Operating and Clamping Voltages.
- Transient Protection for High Speed Data Lines to

IEC61000-4-2(ESD)±15kV(air),±8kV(Contact) IEC61000-4-4(EFT) 40A(5/50ns)

IEC61000-4-5(lightning) 24A(8/20us)

Applications

- Ethernet 10/100/1000 Base T
- WAN/LAN Equipment
- Desktops, Servers, Notebooks & Handhelds, base stations Laser Diode Protection

Absolute Maximum Ratings

Parameter	Symbol	Value	Units
Peak Pulse Power (t _p = 8/20µs) - See Fig1.	P _{PK}	400	W
Peak Pulse Current (t _p = 8/20μs)	I _{PP}	24	Α
Storage Temperature Range		-55 to 150	°C
Operating Junction Temperature Range	TJ	-55 to 150	°C

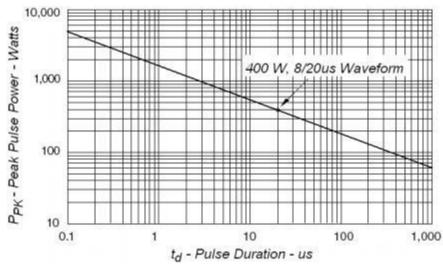


Fig1. Peak Pulse Power **VS Pulse Time**



Electrical Parameter

Symbol	Parameter		
I _{PP}	Peak Pulse Current		
Vc	Clamping Voltage @ I _{PP}		
V _{RWM}	Reverse Stand-Off Voltage		
I _R	Reverse Leakage Current @ V _{RWM}		
V _{SB}	Snap-Back Voltage @ I _{SB}		
I _{SB}	Snap-Back Current		
V _{PT}	Punch-Through Voltage		
I _{PT}	Punch-Through Current		

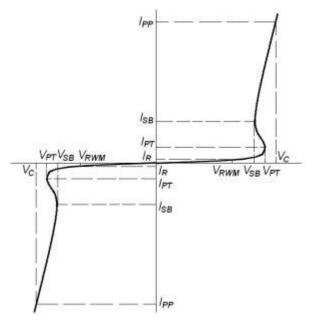


Fig2. SLVU2.8-8 IV Characteristic Curve

Electrical Characteristics

Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				2.8	V
Punch-Through Voltage	V _{PT}	I _{PT} = 2uA	3.0			V
Snap-Back Voltage	V _{SB}	I _{SB} = 50mA	2.8			V
Reverse Leakage Current		V _{RWM} =2.8V, T=25℃			1	uA
	I _R	(Each Line)				
Clamping Voltage	Vc	I_{PP} =2A, t_{P} =8/20us			5.5	V
		(Each Line)				
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20us			8.5	V
	V.C.	(Each Line)				
Clamping Voltage	\/ ₀	I_{PP} =24A, t_{P} =8/20us			15	V
	Vc	(Each Line)	(Each Line)	10	v 	
Junction Capacitance	Cj	VR =0V, f =1MHz (Each Line)		7	10	pF

Typical Characteristics

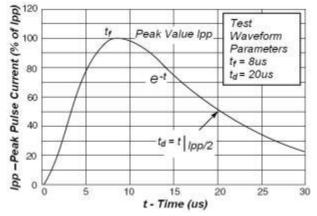


Fig3. Pulse Waveform

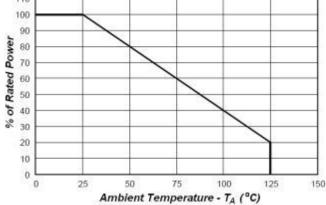


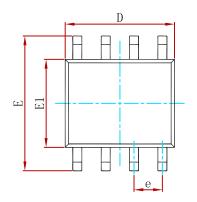
Fig4. Power Derating Curve

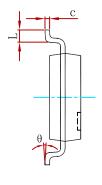


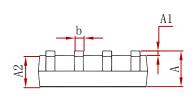






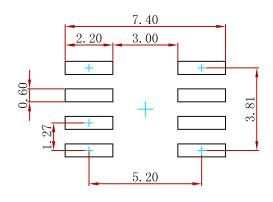






Symbol	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
A	1.350	1.750	0.053	0.069
A1	0.100	0. 250	0.004	0.010
A2	1.350	1.550	0.053	0.061
b	0.330	0.510	0.013	0.020
c	0.170	0. 250	0.007	0.010
D	4.800	5.000	0. 189	0. 197
e	1.270 (BSC)		0.050	(BSC)
Е	5.800	6. 200	0. 228	0. 244
E1	3.800	4.000	0. 150	0. 157
L	0.400	1. 270	0.016	0.050
θ	0°	8°	0°	8°

Suggested Pad Layout



Note:

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

REEL SPECIFICATION

P/N	PKG	QTY
SLVU2.8-8-MS	SOP-8	2500



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