MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

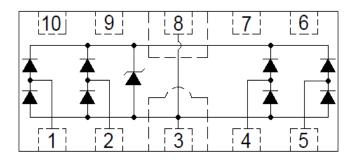
Broduct data sheet





SLP2710P8

Schematic & PIN Configuration



Features

- 60Watts peak pulse power (tp = 8/20µs)
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Low capacitance (Cj=0.2pF typ. I/O to I/O)
- IEC 61000-4-2 ±20kV contact ±25kV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 4A (8/20μs)

Applications

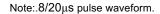
- USB3.0, USB2.0, Ethernet
- HDMI 2.0, Displayport 1.3,eSATA
- Unified Display interface
- Digital Visual Interface
- High speed serial interface

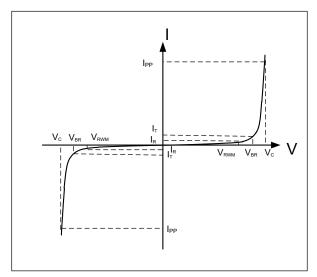
Mechanical Data

- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

Electrical Parameters (TA = 25°C unless otherwise noted)

	Parameter	
I PP	MaximumReversePeak Pulse Current	
Vc	Clamping Voltage @ IPP	
VRWM	WorkingPeak Reverse Voltage	
IR	Maximum Reverse Leakage Current @ VRWM	
V _{BR}	Breakdown Voltage @ I⊤	
lτ	Test Current	





Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20μs)	P _{PP}	70	Watts
Peak Pulse Current (t _p =8/20μs) (note1)	I _{PP}	4.5	А
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	25 20	kV
Lead Soldering Temperature	T∟	260(10seconds)	$^{\circ}\!\mathbb{C}$
Junction Temperature	TJ	-55 to + 125	$^{\circ}$ C
Storage Temperature	T _{stg}	-55 to + 125	$^{\circ}\!\mathbb{C}$

Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6.0			V
Reverse Leakage Current	I _R	V _{RWM} =5V,T=25℃			1	μА
Peak Pulse Current	I _{PP}	tp =8/20μs			4.5	А
Clamping Voltage	V _C	I _{PP} =4A,t _p =8/20μs			15	V
lunction Consoitance	C _j	V _R = 0V, f = 1MHz I/O to I/O		0.2	0.3	n E
Junction Capacitance		V _R = 0V, f = 1MHz I/O to GND		0.4	0.55	pF

Fig.1 Peak Pulse Power Rating Curve

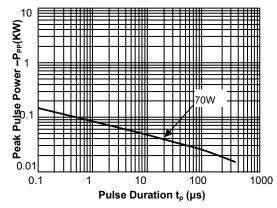


Fig.3 Pulse Waveform-8/20µs

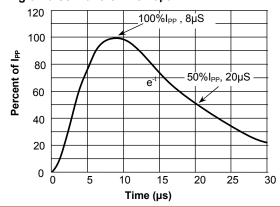


Fig.2 Pulse Derating Curve

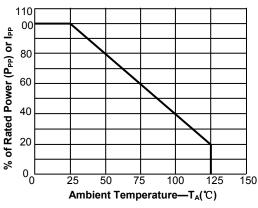
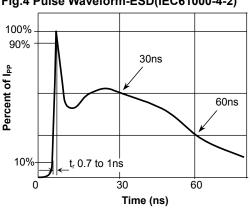
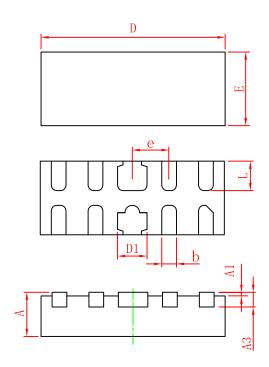


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)





Outline Drawing -SLP2710P8(2.7mmx1.0mm)



Symbol	Dimensions in millimeters			
Symbol	Min	Nom	Max	
Α	0.38	0.50	0.58	
A1	-	0.02	0.05	
A3	0.10	0.13	0.20	
D	2.60	2.70	2.80	
E	0.90	1.00	1.10	
D1	0.35	0.40	0.45	
b	0.15	0.20	0.25	
е	0.60BSC			
L	0.30	0.38	0.45	

REEL SPECIFICATION

P/N	PKG	QTY
RCLAMP0524J-MS	SLP2710P8	3000



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