

Features

- ◆ 400W peak pulse power(8/20 μ s)
- ◆ Protects four line pairs(eight lines)
- ◆ High peak pulse current
- ◆ Comprehensive pin out for easy board layout
- ◆ Low capacitance
- ◆ Low leakage current
- ◆ Low operating and clamping voltages
- ◆ Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
Air discharge: ± 30 kV
Contact discharge: ± 25 kV
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning) 20A (8/20 μ s)
- ◆ RoHS Compliant

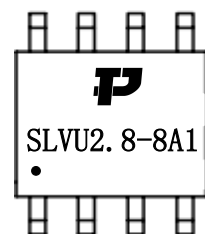
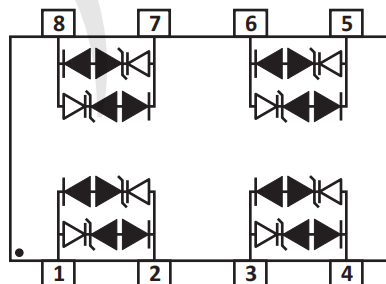
Mechanical Characteristics

- ◆ Package: SO-8
- ◆ Lead Finish: Matte Tin
- ◆ Case Material: "Green" Molding Compound.
- ◆ UL Flammability Classification Rating 94V-0
- ◆ Moisture Sensitivity: Level 3 per J-STD-020
- ◆ Terminal Connections: See Diagram Below
- ◆ Shipping Qty :2500pcs/7Inch Tape & Reel

Applications

- ◆ 10/100 Ethernet
- ◆ WAN/LAN Equipment
- ◆ Switching Systems
- ◆ DSLAMs
- ◆ Desktops, Servers, & Notebooks
- ◆ Instrumentation
- ◆ Base Stations
- ◆ Analog Inputs

Dimensions and Pin Configuration



Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

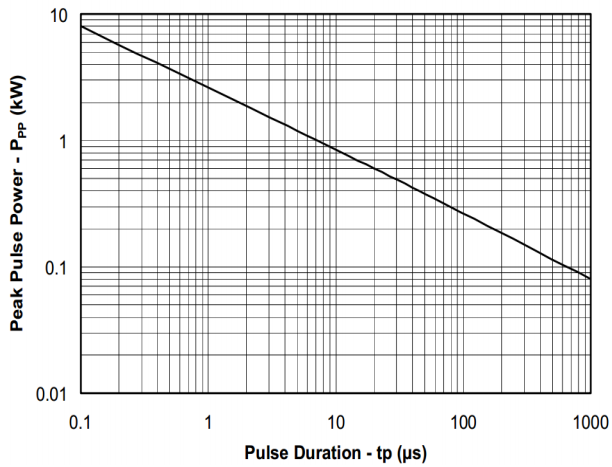
Parameter	Symbol	Value	Unit
Peak Pulse Power(8/20μs)	Ppk	400	W
Peak Pulse Current(8/20μs)	I _{PP}	20	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±30 ±30	kV
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Electrical Characteristics (T_A=25°C unless otherwise specified)

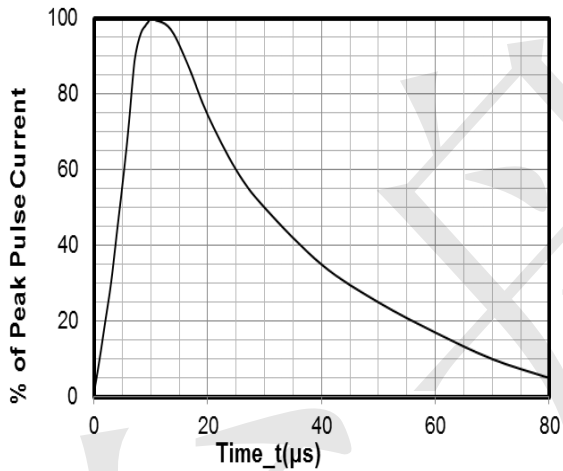
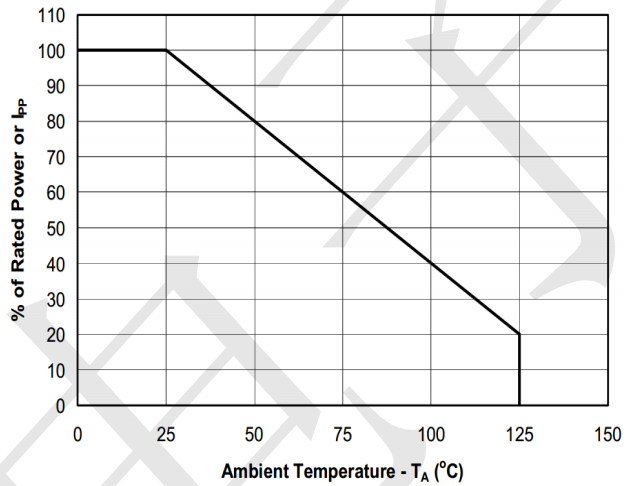
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V _{RWM}			2.8	V	
Pouch-Through Voltage	V _{PT}	3.0			V	I _{PT} = 2μA
Snap-Back Voltage	V _{SB}	2.8			V	I _{SB} = 50mA
Reverse Leakage Current	I _R		0.1	1.0	μA	V _{RWM} = 2.8V(Each Line)
Clamping Voltage	V _C			6.0	V	I _{PP} = 1A (8 x 20μs pulse) (Each Line)
Clamping Voltage	V _C			8.0	V	I _{PP} = 5A (8 x 20μs pulse) (Each Line)
Clamping Voltage	V _C			10	V	I _{PP} = 10A (8 x 20μs pulse) (Each Line)
Clamping Voltage	V _C			17	V	I _{PP} = 20A (8 x 20μs pulse) (Each Line)
Junction Capacitance	C _J		1		pF	V _R = 0V, f = 1MHz(Each Line)

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)

Non-Repetitive Peak Pulse Power vs. Pulse Time



Power Derating Curve



8 X 20 μs Pulse Waveform

