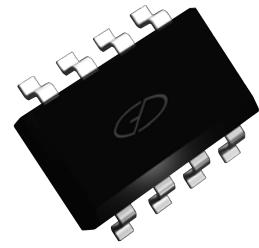
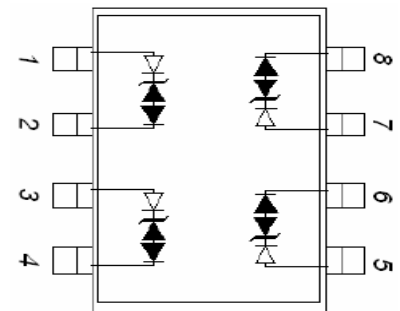


Features

- 900 Watts Peak Pulse Power per Line (tp=8/20μs)
- SOP-8 package
- Protects two line pairs(fours lines)
- Low leakage current and clamping voltage
- Low capacitance
- RoHS compliant
- Transient protection to
 - IEC 61000-4-2(ESD) ±30 KV(air), ±30KV(contact);
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5(Lightning) 45A (8/20us)



SOP-8



Schematic Diagram

Applications

- 10/100 Ethernet
- WAN/LAN Equipment
- Integrated magnetics/RJ-45 connectors
- Security Cameras
- Notebooks & Desktop Computers
- Industrial Controls
- Peripherals

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

Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20μS)	P _{PP}	900	W
Peak Pulse Current (T _P = 8/20μS)	I _{PP}	45	A
Junction Temperature	T _J	-55 to +125	°C
Storage Temperature	T _{STG}	-55 to +150	°C

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

Parameter	Symbols	Conditions	Min	Typ	Max	Units
Reverse Stand-off Voltage	V _{RWM}		-	-	2.8	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	3.0	-	-	V
Snap-Back Voltage	V _{SB}	I _{SB} =50mA	2.8	-	-	V
Reverse Leakage Current	I _R	V _{RWM} =2.8V	-	0.05	0.5	μA
Clamping Voltage	V _C	I _{PP} =45A, T _P =8/20μs	-	20	25	V
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	3.0	-	pF

Typical Characteristic Curves

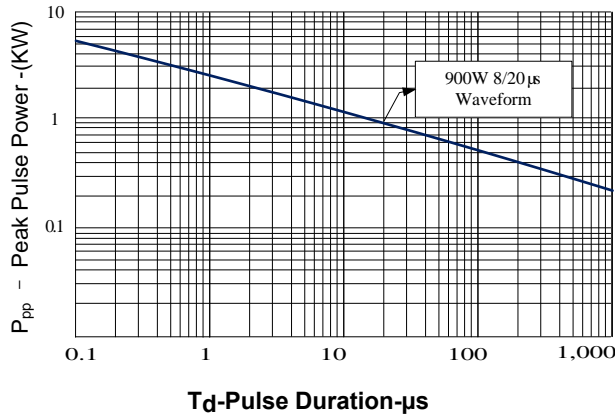


Fig.1 Peak Pulse Power vs Pulse Time

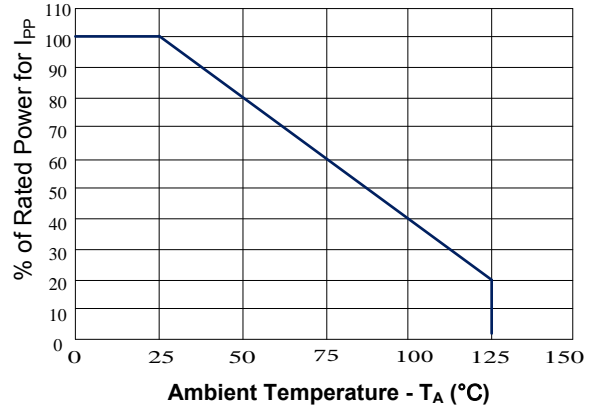


Fig.2 Power Derating Curve

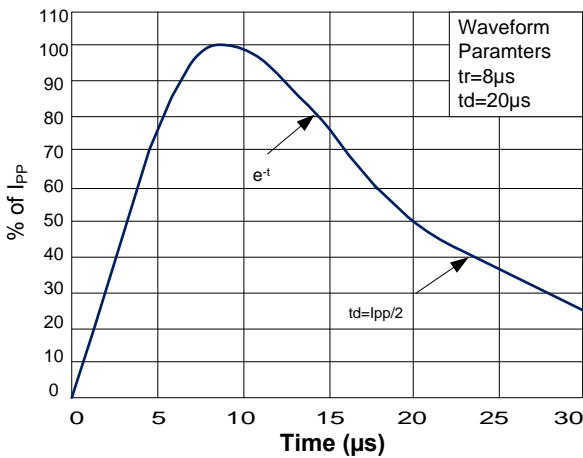


Fig.3 Pulse Waveform

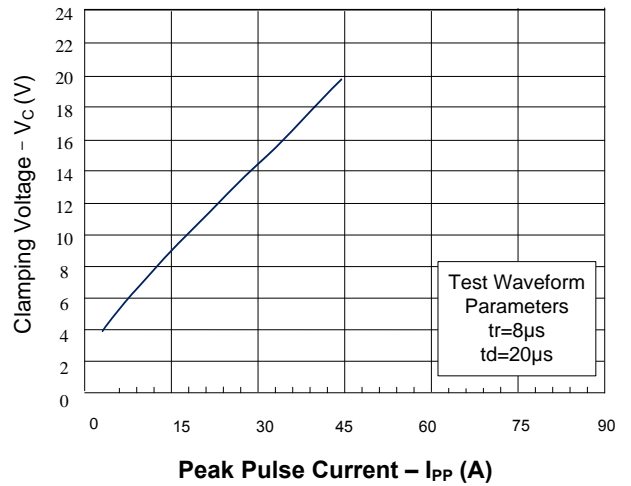
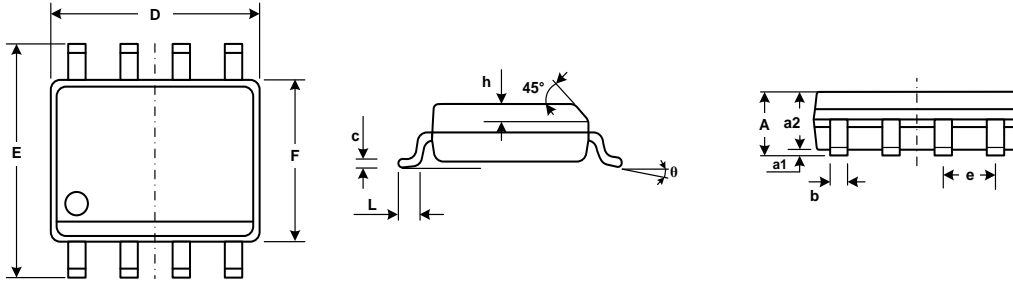


Fig.4 Clamping Voltage vs. Peak Pulse Current

Package Outline Dimensions

SOP-8



DIMENSIONS				
SYMBOL	INCHES		MILIMETER	
	MIN	MAX	MIN	MAX
A	0.053	0.069	1.35	1.75
a1	0.004	0.010	0.10	0.25
a2	0.053	0.061	1.35	1.55
D	0.185	0.200	4.70	5.10
F	0.150	0.157	3.80	4.00
E	0.228	0.244	5.80	6.20
b	0.013	0.020	0.33	0.51
e	0.050BSC		1.27BSC	
h	0.010	0.020	0.25	0.50
c	0.007	0.010	0.17	0.25
L	0.016	0.050	0.40	1.27
θ	0°	8°	0°	8°

Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
GSEQ3U030	SOP-8	SLVU2.8	Tape & Reel	2500pcs	RoHS compliant