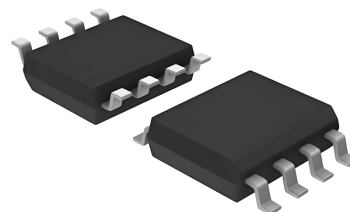


Features

- 480W ($t_p=8/20\mu s$) Peak Pulse Power per Line
- Low Voltage TVS Diode Array for ESD and Latch-Up protection
- Low clamping voltage
- Low Leakage Current
- Moisture sensitivity level: Level 1
- Low Capacitance ESD Protection
- Meet IEC61000-4-2
Contact discharge $\pm 30kV$
Air discharge $\pm 30kV$



Applications

- 10/100 Ethernet
- Base Stations
- Analog Inputs
- Switching Systems
- WAN/LAN Equipment
- Laser Diode Protection
- Desktops, Servers, Notebooks and Handhelds

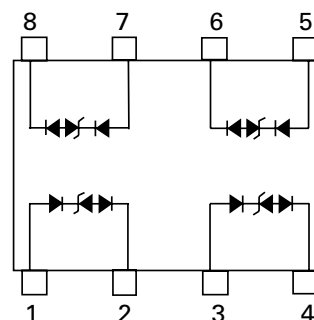
Mechanical Data

- SOP-8 package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel(13inch)

Agency Approvals

Icon	Description
RoHS	Compliance with (EU)2015/863
HF	Compliance with IEC61249-2-21:2003
	Mean lead free

Schematic & PIN Configuration



Absolute Maximum Ratings

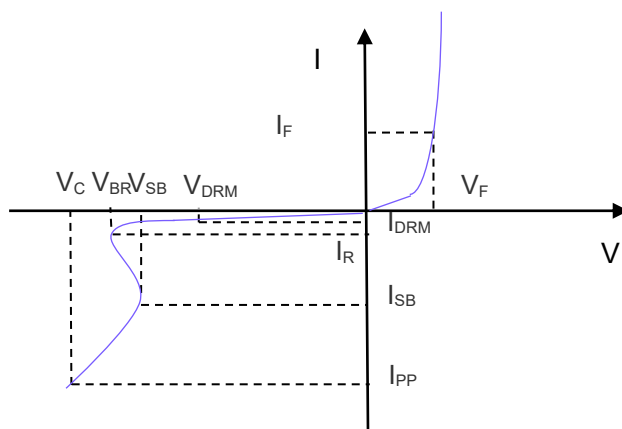
Parameter	Symbol	Value	Unit
Peak Pulse Power($t_p=8/20\mu s$)	P_{PK}	480	W
Peak Pulse Current($t_p=8/20\mu s$)	I_{PP}	24	A
Lead Soldering Temperature	T_L	260(10seconds)	°C
Junction Temperature	T_J	-55 to +125	°C
Storage Temperature	T_{STG}	-55 to +150	°C

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

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V_{RWM}				2.8	V
Trigger Voltage	V_T	$I_T = 2\mu A$	3.0			V
Reverse Leakage Current	I_R	$V_{RWM} = 2.8V$			1	μA
Snap-Back Voltage	V_{SB}	$I_{SB} = 50mA$	2.8			V
Clamping Voltage	V_C	$I_{PP} = 1A, t_p=8/20\mu s$		7	9	V
Clamping Voltage	V_C	$I_{PP} = 5A, t_p=8/20\mu s$		9	12	V
Clamping Voltage	V_C	$I_{PP} = 24A, t_p=8/20\mu s$		16	20	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		1	2	pF

I-V Curve Characteristics

Parameters	Definition
V_C	Clamping voltage
I_{PP}	Peak pulse current
V_{DRM}	Stand-off Voltage
V_{BR}	Breakdown Voltage
V_{SB}	Snapback Voltage
I_{DRM}	Reverse Leakage Current
I_R	Test current
I_{SB}	Test current
V_F	Forward on-state voltage
I_F	Forward current
P_{pp}	Peak Pulse Power Dissipation



Note: 8/20 μs pulse waveform.

Characteristics Cureves(TA=25°C unless otherwise Specified)

Fig 1. 8/20μs Pulse Waveform

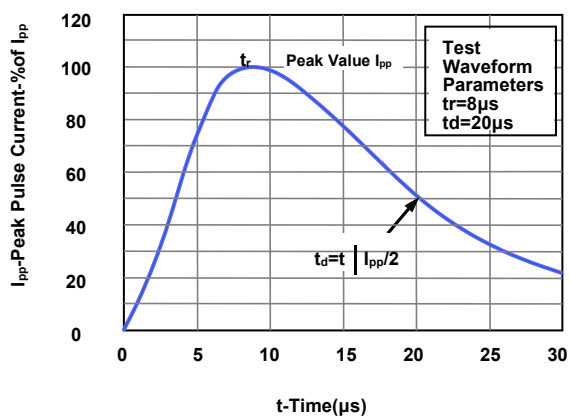


Fig2.ESD Pulse Waveform (according to IEC61000-4-2)

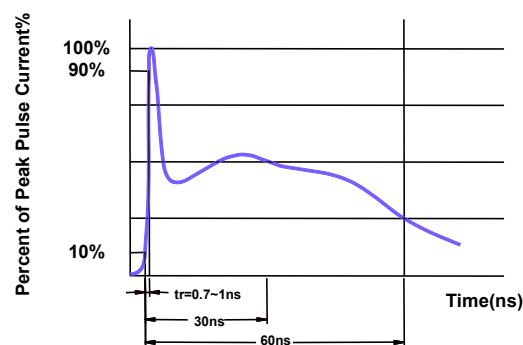


Fig 3. Power Derating Curve

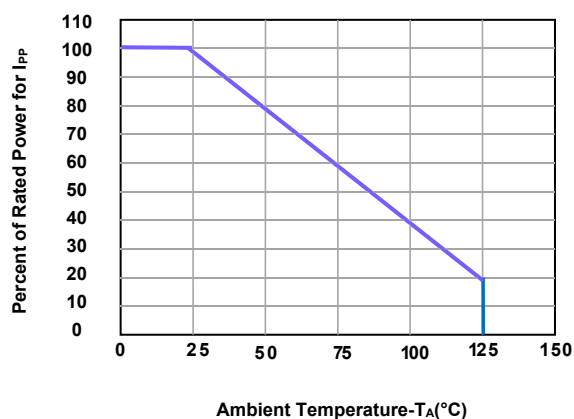


Fig 4. Peak Pulse Power vs. Pulse Time

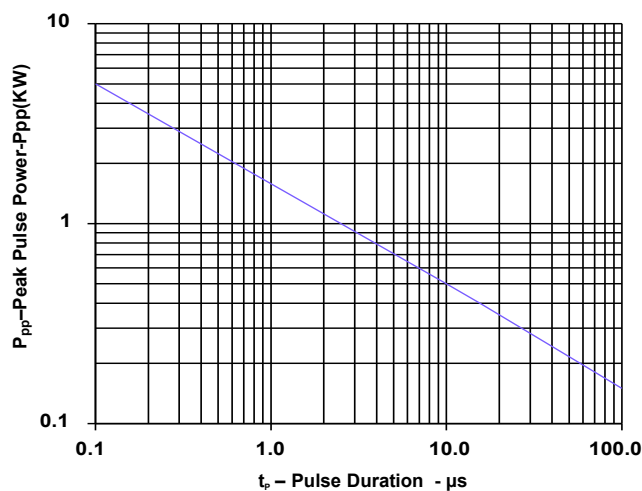


Fig 5. Junction Capacitance vs. Reverse Voltage

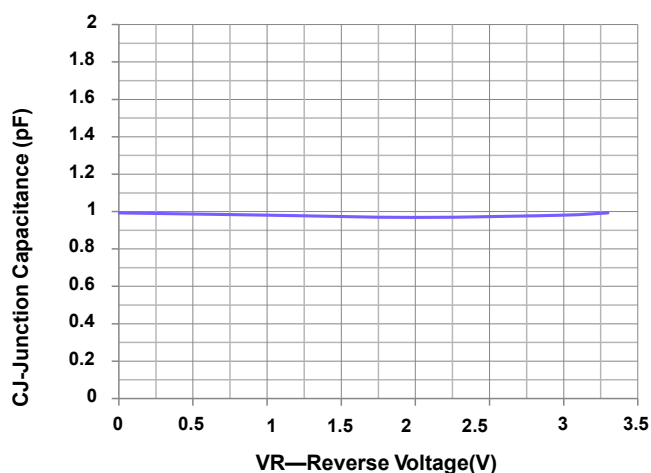
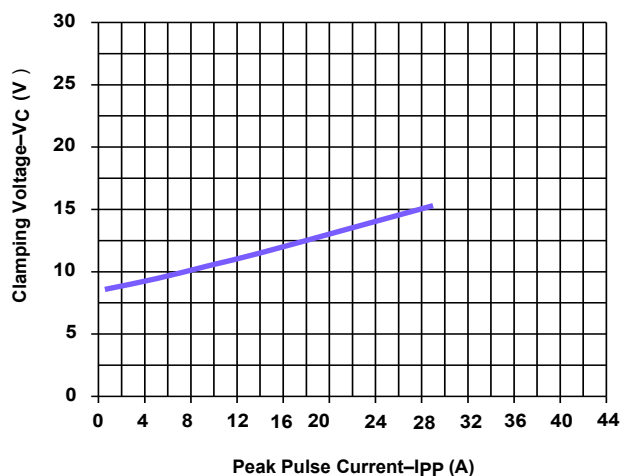
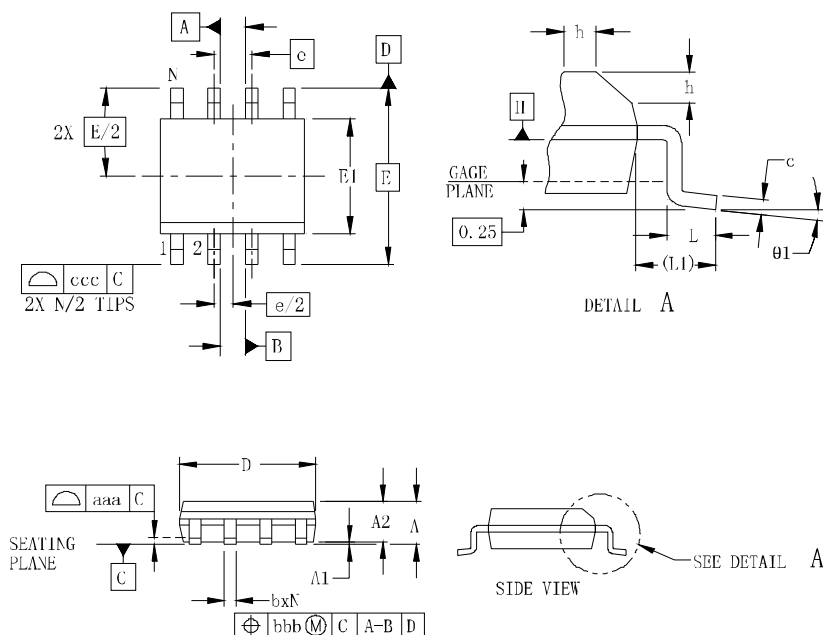


Figure 6. Clamping Voltage vs. Peak Pulse Current

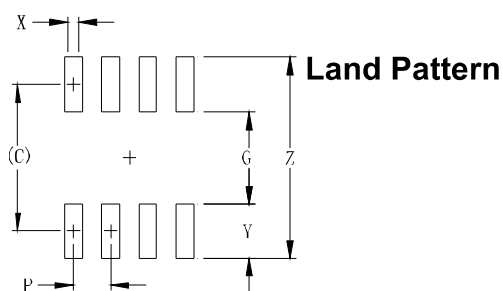


SOP-8 Package Outline



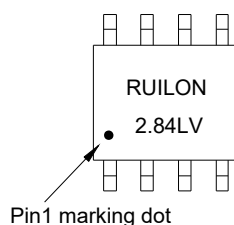
SY M	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.35		1.75	0.053		0.069
A1	0.10		0.25	0.004		0.010
A2	1.25		1.65	0.049		0.065
b	0.31		0.51	0.012		0.020
c	0.17		0.25	0.007		0.010
D	4.80	4.90	5.00	0.189	0.193	0.197
E1	3.80	3.90	4.00	0.150	0.154	0.157
E	6.00 BSC			0.236 BSC		
e	1.27 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		
Ø1	0°		8°	0°		8°
aaa	0.10			0.004		
bbb	0.25			0.010		
ccc	0.20			0.008		

Suggested



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

Marking Information



Ordering Information

Part Number	Quantity	Delivery Mode
RLSO8A2.84LV	2500PCS	Tape & Reel(13 inch)