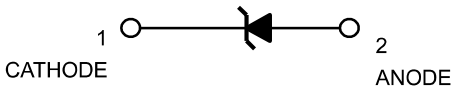
Features

- Small Body Outline Dimensions:0.039″ x 0.024″(1.0 mmx 0.60mm)
- Low Body Height: 0.020″ (0.50 mm)
- Stand−off Voltage:24V
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000−4−2 Level 4 ESD Protection
- These are Pb−Free Devices
- We declare that the material of product compliance with RoHS requirements.

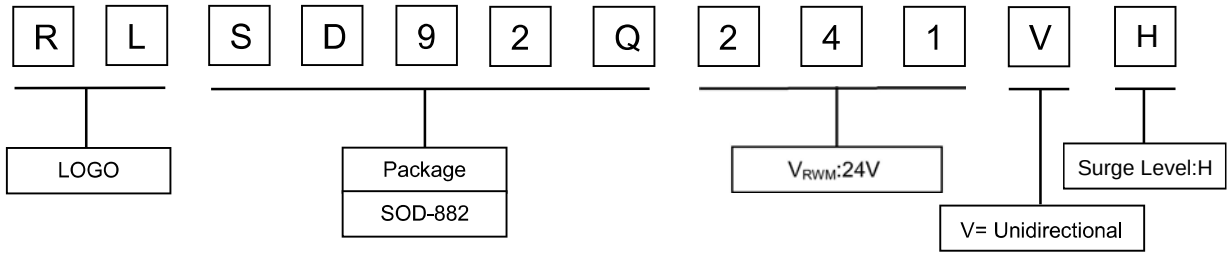
Electrical symbol



Applications

- Cellular phones audio
- MP3 players
- Digital cameras
- Portable applications
- Mobile telephone

Part Number Code



Absolute Maximum Rating

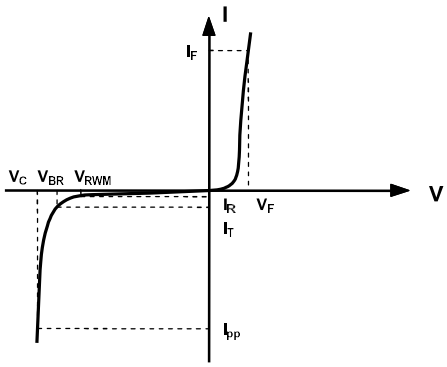
Rating	Symbol	Value	Units
Max. Peak Pulse Power (tp =8/20μs)	P_{PK}	1200	mW
ESD Voltage (Contact)	V_{ESD}	±8	Kv
ESD Voltage (Air)	V_{ESD}	±15	Kv
Lead Solder Temperature - Max . (10 Second Duration)	T_L	260	°C
Operating Temperature	T_J	-55 to 150	°C
Storage Temperature	T_{STG}	-55 to 150	°C

Electrical Characteristics (@ 25°C Unless Otherwise Specified)

Type Number	Reverse Stand-Off Voltage	Min. Breakdown Voltage	Max. Peak Pulse Voltage @8/20μS	Max. Peak Pulse Current @8/20μS	Max. Reverse Leakage @V_{RWM}	Typical Capacitance
	V_{RWM}	V_{BR} @1mA	V_C@ Max. I_{PP}	I_{PP}	I_R@V_{RWM}	DC=0V C_J@ 1 MHz
	V	V	V	A	μA	pF
RLSD92Q241VH	24	26	40	30	1.0	70

Electrical Parameters (T=25°C)

Symbol	Parameter
I_{pp}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{pp}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_F	Forward Current
V_F	Forward Voltage @ I_F



Characteristic Curves

Fig 1. 8/20μs Pulse Waveform

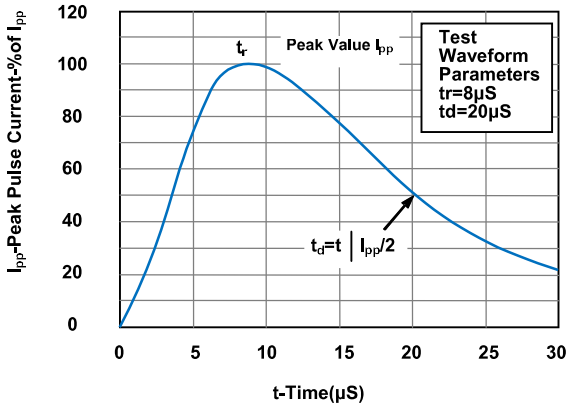


Fig2.ESD Pulse Waveform (according to IEC61000-4-2)

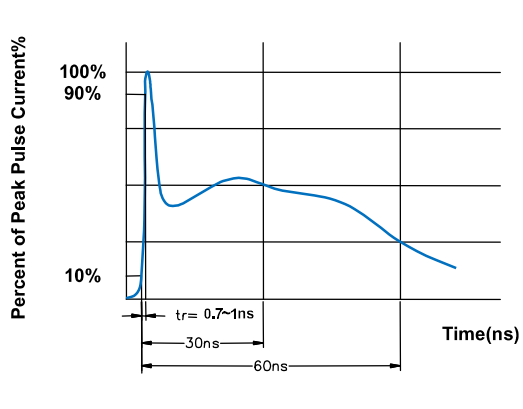


Fig 3. Power Derating Curve

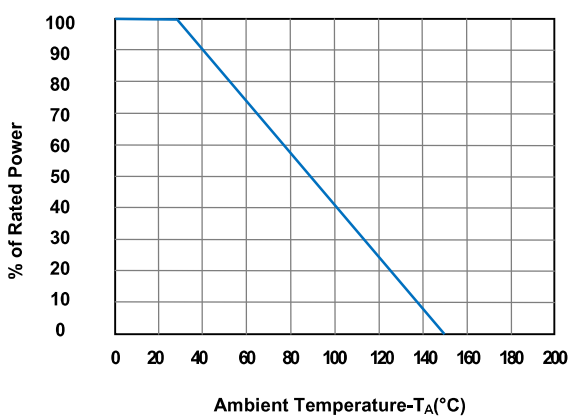
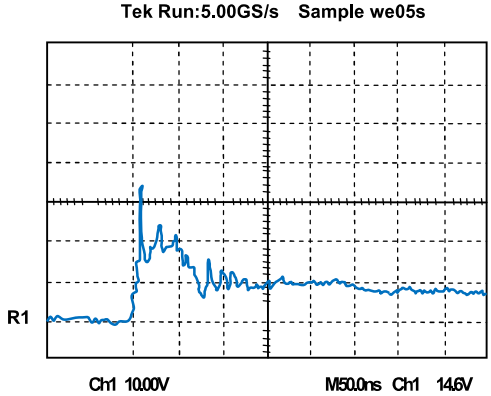
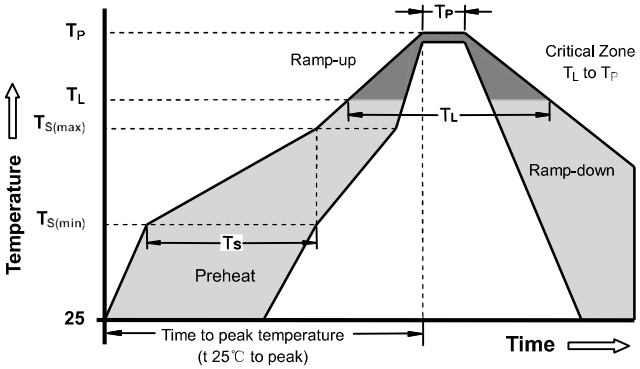


Figure 4.ESD Clamping(8KV Contact per IEC61000-4-2)

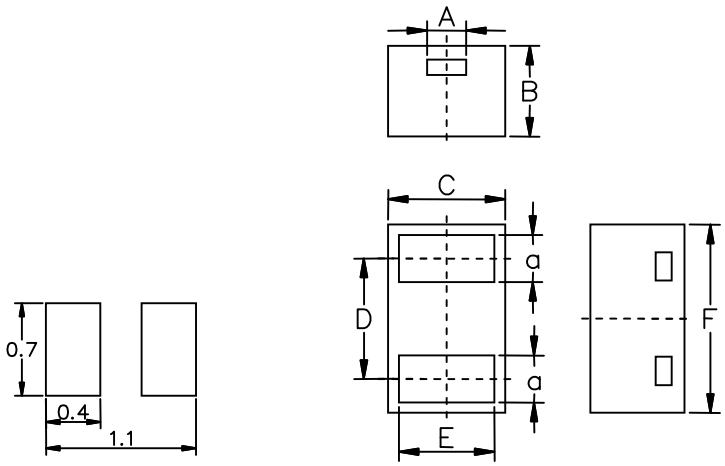


Soldering Parameters - Reflow Soldering (Surface Mount Devices)



Reflow Condition		Pb - Free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150°C
	-Temperature Max ($T_{s(max)}$)	200°C
	- Time (min to max) (t_s)	60 -180 Seconds
Average ramp up rate (Liquids Temp T_L) to peak		3°C/second max
$T_{S(max)}$ to TL - Ramp-up Rate		3°C/second max
Reflow	- Temperature (T_L) (Liquids)	217°C
	- Time (min to max) (t_s)	60 -150 Seconds
Peak Temperature (T_P)		260 +0/-5°C
Time within 5°C of actual peak Temperature (t_p)		20 - 40 Seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max
Do not exceed		280°C

Dimensions



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	0.20		0.008	
B	0.465	0.5	0.018	0.02
C	0.55	0.65	0.022	0.026
D	0.64		0.025	
E	0.44	0.54	0.017	0.021
F	0.95	1.05	0.037	0.041
a	0.20	0.30	0.008	0.012

Part Number	Component package	Quantity	Reel Size	Molding compound flammability rating	Lead Finish
RLSD92Q241VH	SOD-882	10000	7 inch	UL 94V-0	Lead Free