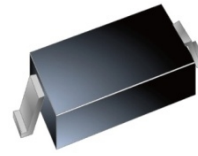


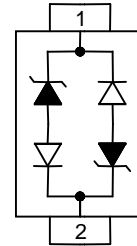
Features

- I Transient protection for high-speed data lines
IEC 61000-4-2 (ESD) ±8kV (Contact) ±15kV (Air)
IEC 61000-4-4 (EFT) 40A (5/50 ns)
- I Protects one I/O line (bidirectional)
- I Working voltages : 36V
- I Low clamping voltage
- I Low leakage current
- I Response time is < 1 ns



SOD-323

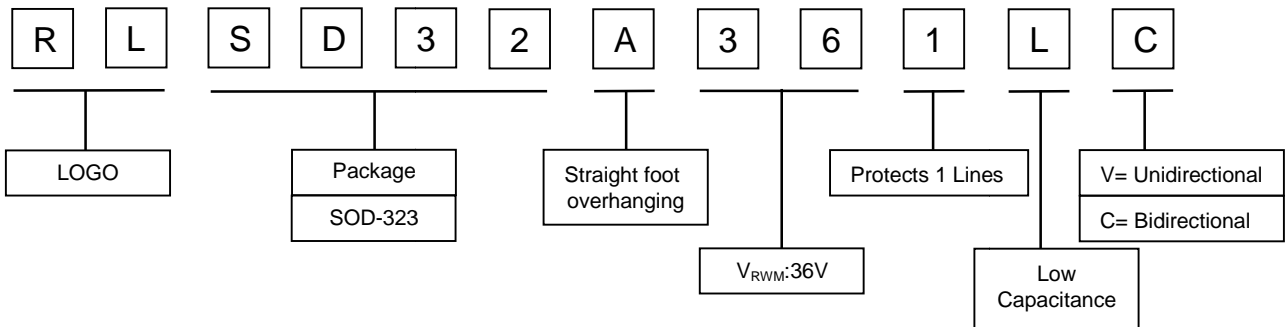
Electrical symbol



Applications

- I Cell Phone Handsets and Accessories
- I Microprocessor based equipment
- I Personal Digital Assistants (PDA's)
- I Notebooks, Desktops, and Servers
- I Portable Instrumentation
- I Peripherals
- I USB Interface

Part Number Code



Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (tp =8/20µs)	P _{PP}	350	Watts
ESD Voltage (Contact)	V _{ESD}	±8	kV
ESD Voltage (Air)	V _{ESD}	±15	kV
Operating Temperature	T _{OPT}	-55 to 150	°C
Storage Temperature	T _{STG}	-55 to 150	°C

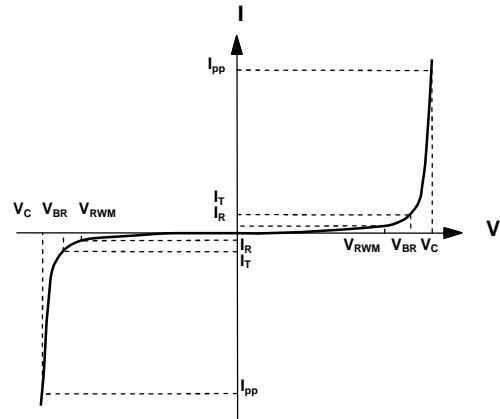
Electrical Characteristics (@ 25°C Unless Otherwise Specified)

Type Number	Reverse Stand-Off Voltage	Minimum Breakdown Voltage	Peak Pulse Voltage @8/20µS	V _C @I _{pp} (8/20µS)		Reverse Leakage	Typical Capacitance
	V _{RWM}	V _{BR} @1mA	V _C @1A	I _{PP}	Max.	I _R @V _{RWM}	DC=0V C _J @ 1 MHz
	V	V	V	A	V	µA	pF
RLSD32A361LC	36	40	60	4.5	75.0	1	0.8



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

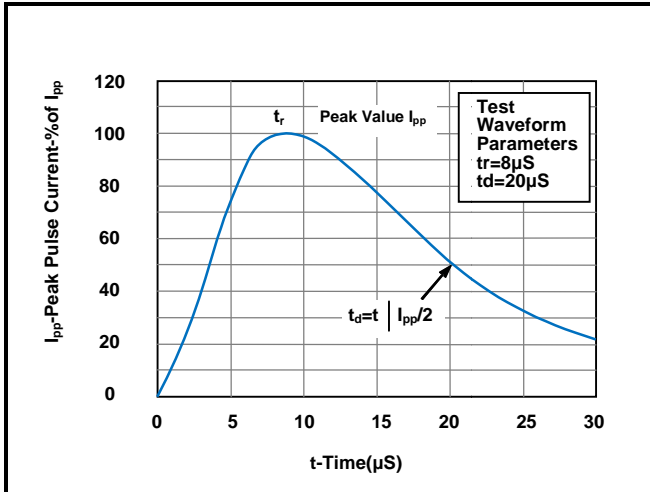


Fig 3. Power Derating Curve

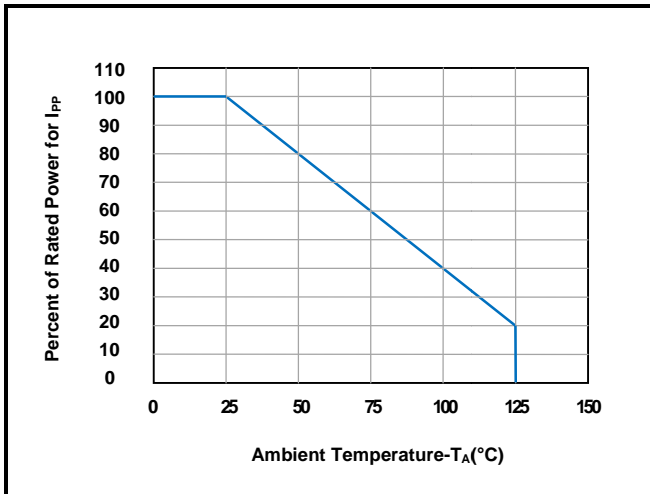


Fig2.ESD Pulse Waveform (according to IEC61000-4-2)

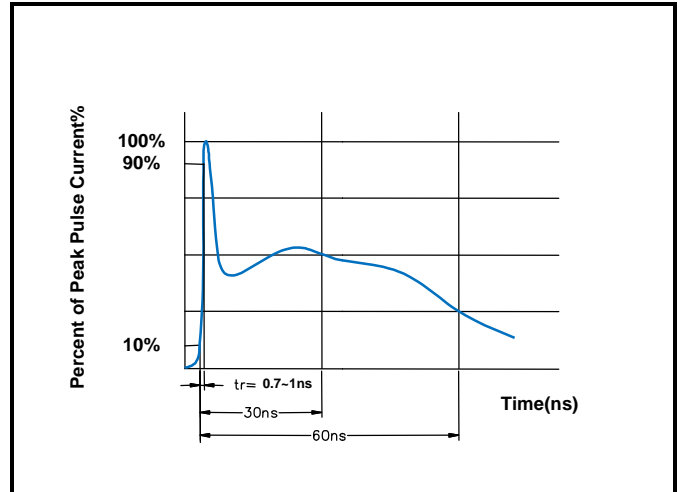
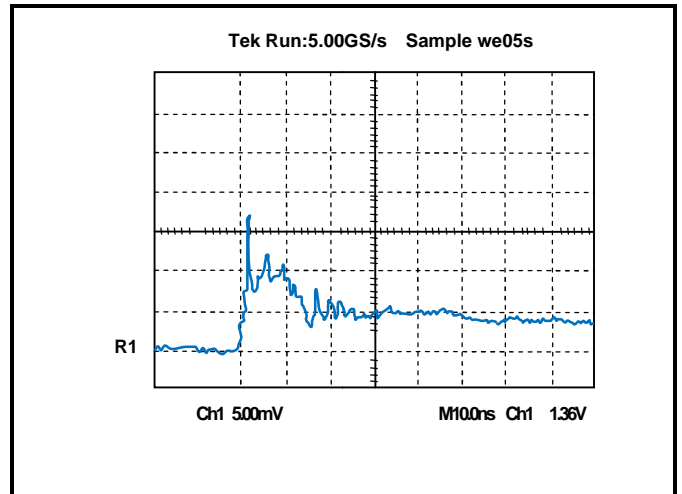
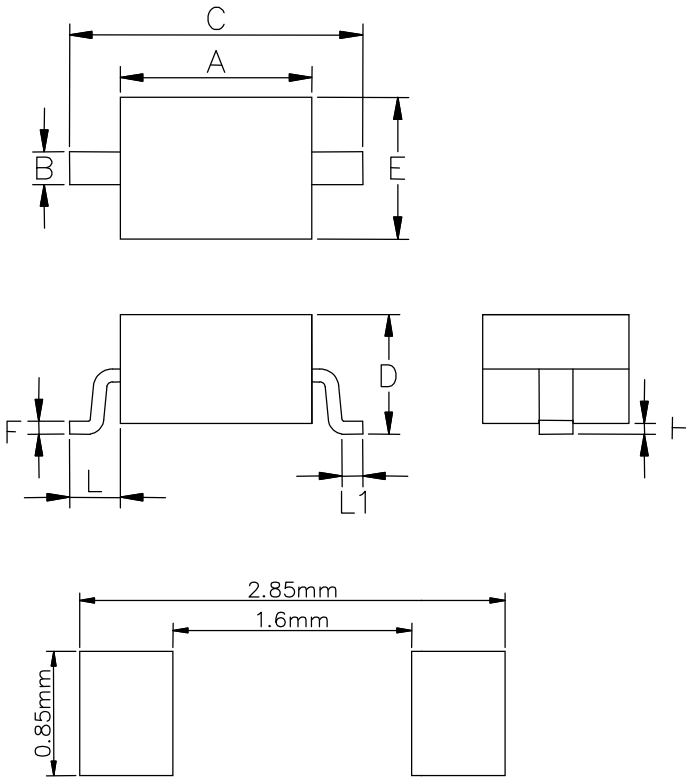


Figure 4.ESD Clamping(8KV Contact per IEC61000-4-2)



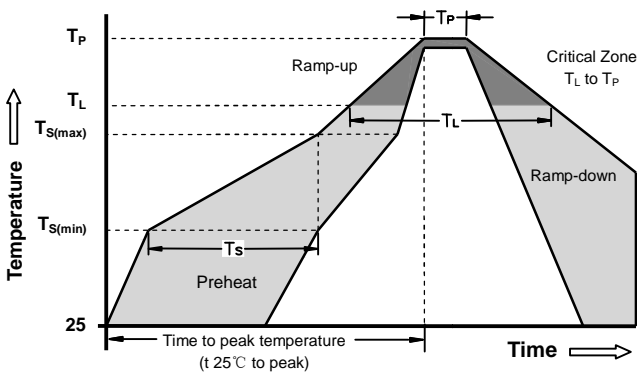
Dimensions



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	1.60	1.80	0.063	0.071
B	0.25	0.35	0.010	0.014
C	2.50	2.70	0.098	0.106
D	0.00	1.00	0.00	0.039
E	1.20	1.40	0.047	0.055
F	0.08	0.15	0.003	0.006
L	0.475REF		0.019REF	
L1	0.25	0.40	0.010	0.016
H	0.00	0.10	0.00	0.004

Part Number	Component package	Quantity	Reel Size	Molding compound flammability rating	Lead Finish
RLSD32A361LC	SOD-323	3000	7 inch	UL 94V-0	Lead Free

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 T_L - 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

