Leiditech

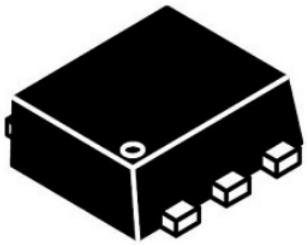
LC0532T5

TVS DIODE ARRAY FOR USB LINE PROTECTION

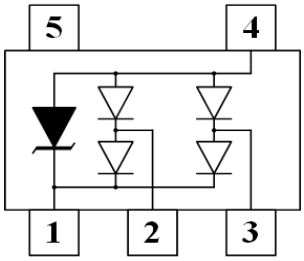
Features

- 72 Watts Peak Pulse Power per Line (tp=8/20 μ s)
- Protects Two I/O Lines and Vcc
- Low Clamping Voltage
- RoHS Compliant
- IEC61000-4-2 (ESD) ±17kV (air), ±14kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- IEC61000-4-5 (LIGHTING) 4A (8/20 μ s)

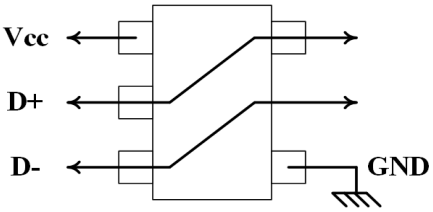
Dimensions SOT-553



Pin Configuration



Typic Application Schematic



Applications

- USB Port Protection
- HDMI/DVI Port Protection
- Digital Sensor Input Protection
- Industrial Controls
- LVDS Protection
- Automotive Applications

Mechanical Characteristics

- SOT-553 Package
- Molding Compound Flammability Rating : UL 94V-O
- Weight 3 Millgrams (Approximate)
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

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

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	72	W
ESD per IEC 61000−4−2 (Air)	V_{ESD}	±17	Kv
ESD per IEC 61000−4−2 (Contact)		±14	
Operating Temperature Range	T_J	-55 to +125	℃
Storage Temperature Range	T_{STJ}	-55 to +150	℃

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

Part Number	Device Marking	V_{RWM} (V)	V_{BR} (V)	I_T (mA)	V_C @1A	Vc		I_R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
LC0532T5	UD	5	6	1	9.8	18	4	1	0.7

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TYPIC CHARACTERISTICS

Figure 1. 8 x 20 μs Waveform

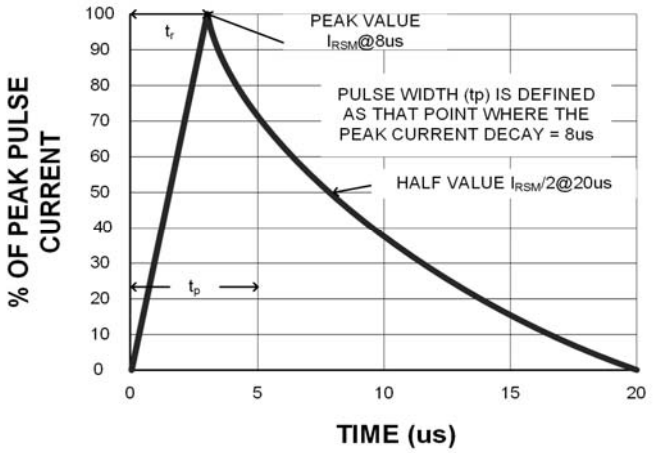


Figure 2. Power Derating Curve

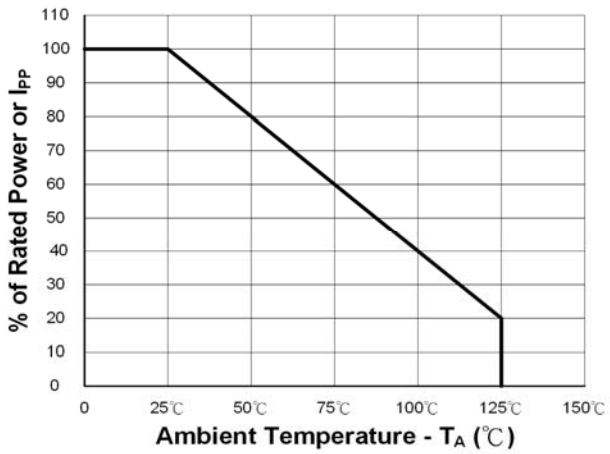
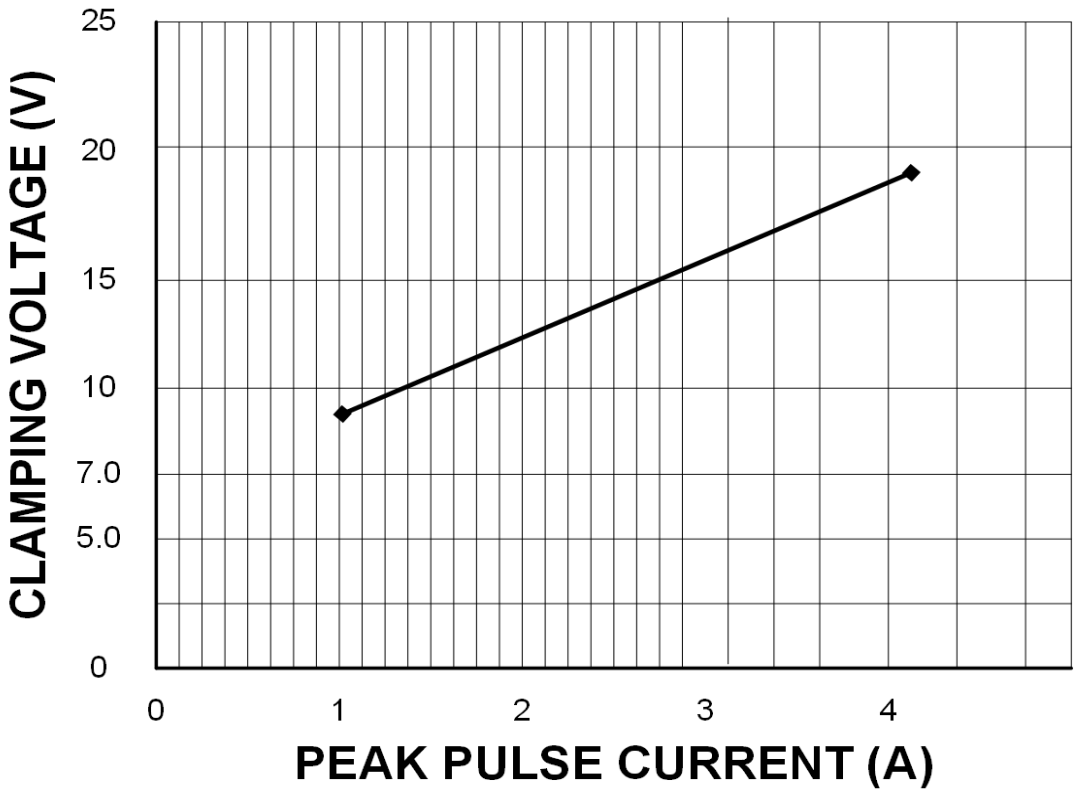
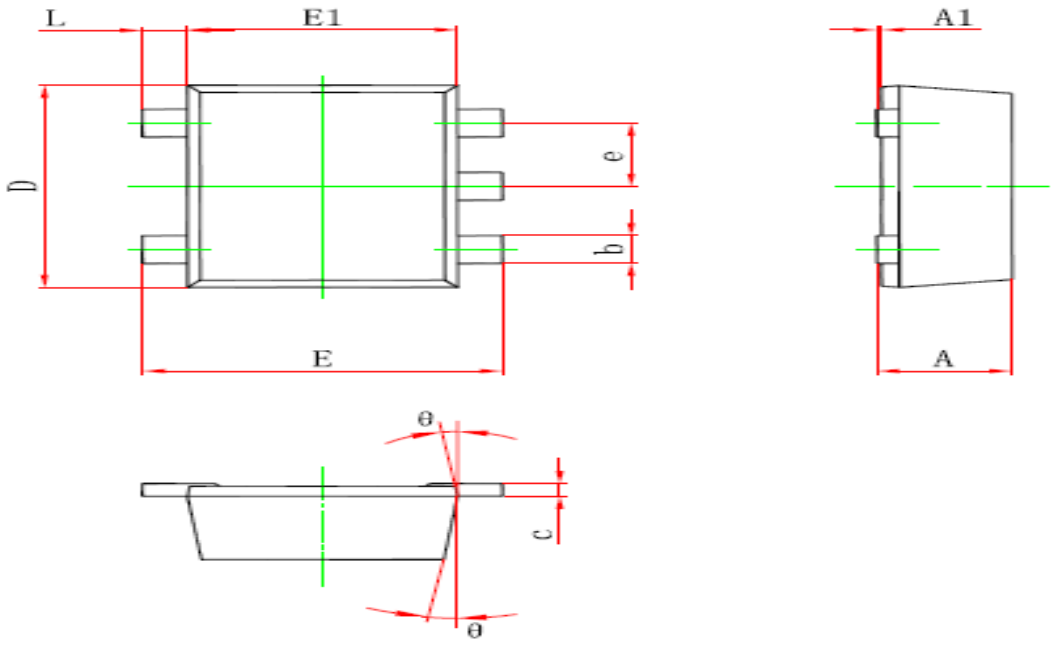


Figure 3. Clamping Voltage vs. Peak Pulse Current (tp=8/20 μs)



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SOT-553 Package Outline & Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.525	0.600	0.021	0.024
A1	0.000	0.050	0.000	0.002
e	0.450	0.550	0.018	0.022
c	0.090	0.160	0.004	0.006
D	1.500	1.700	0.059	0.067
b	0.170	0.270	0.007	0.011
E1	1.100	1.300	0.043	0.051
E	1.500	1.700	0.059	0.067
L	0.100	0.300	0.004	0.012
θ	7 °REF.		7 °REF.	

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