Leiditech

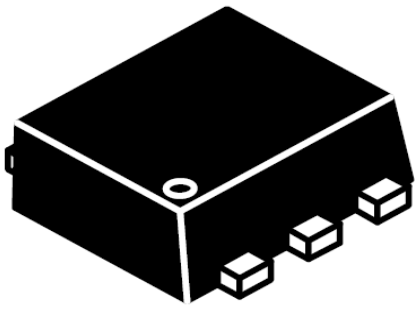
PLR0502

LOW CAPACITANCE TVS DIODE ARRAY

Features

- 100 Watts Peak Pulse Power per Line (tp=8/20μs)
- Protects Two Uidirectional I/O Lines and One Vcc Line
- Low Clamping Voltage
- Working Voltages : 5.0V
- Low Leakage Current
- IEC61000-4-2 (ESD) ±25kV (air), ±15kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- IEC61000-4-5 (LIGHTING) 4A (8/20μs)

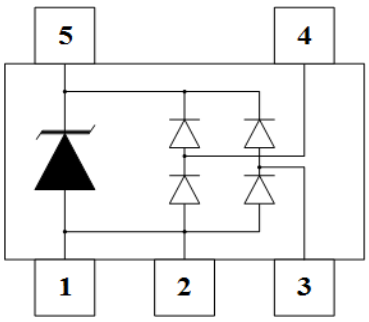
Dimensions SOT-553



Applications

- Ethernet Interface
- Switchin Systems
- Access Equipment
- Central Office Equipment
- Customer Premise Equipment
- Microcontroller Input Protection

Pin Configuration



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	100	W
ESD per IEC 61000−4−2 (Air)	V_{ESD}	± 25	Kv
ESD per IEC 61000−4−2 (Contact)		± 15	
Operating Temperature Range	T_J	-55 to +125	℃
Storage Temperature Range	T_{STJ}	-55 to +150	℃

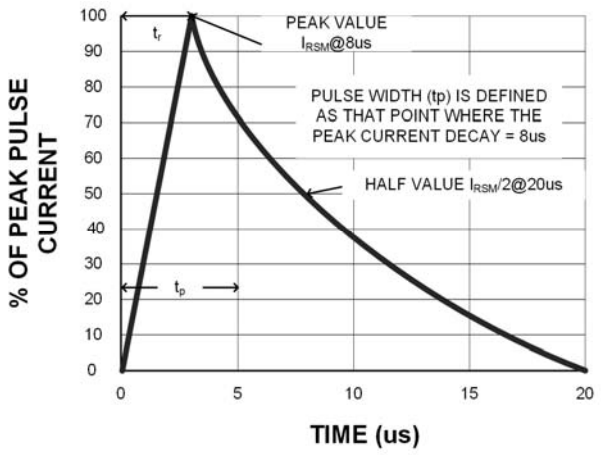
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Electrical Characteristics(TA=25°C unless otherwise specified)

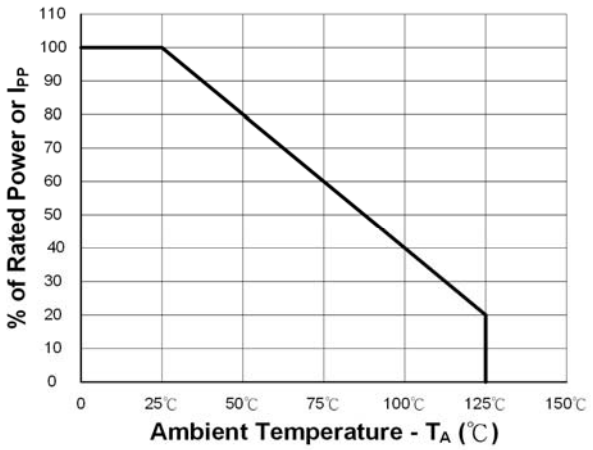
Part Number	Device Marking	V_{RWM} (V)	V_{BR} (V)	I_T (mA)	V_C @1A	Vc		I_R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
PLR0502	UB	5	6	1	12	25	4	1	0.5

TYPIC CHARACTERISTICS

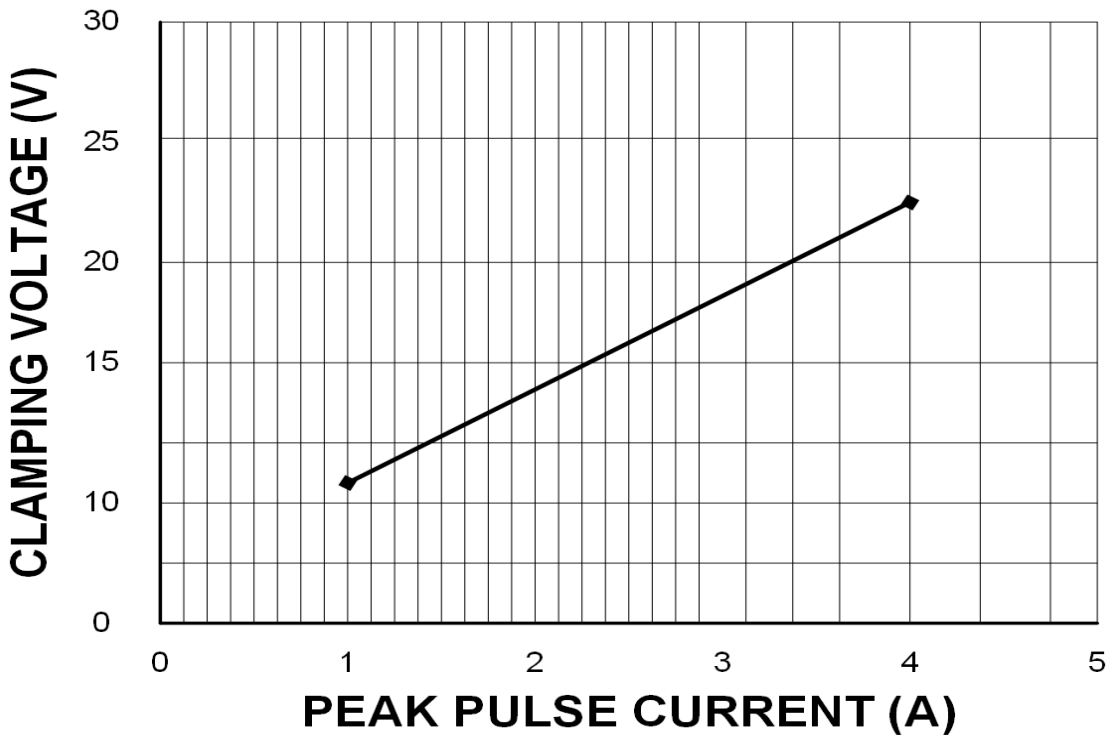
8 x 20 μs Waveform



Power Derating Curve



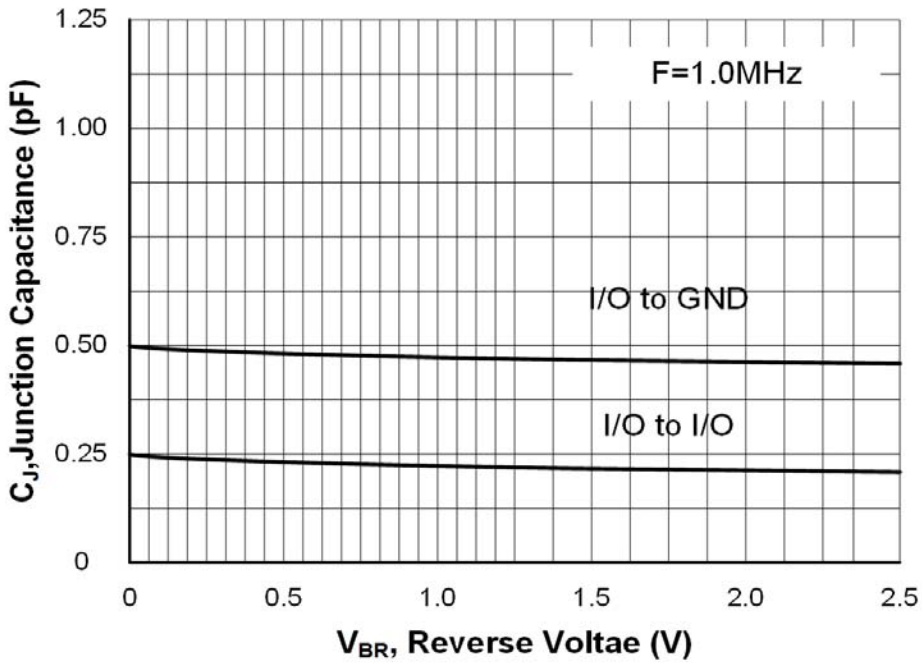
Clamping Voltage vs. Peak Pulse Current (tp=8/20us)



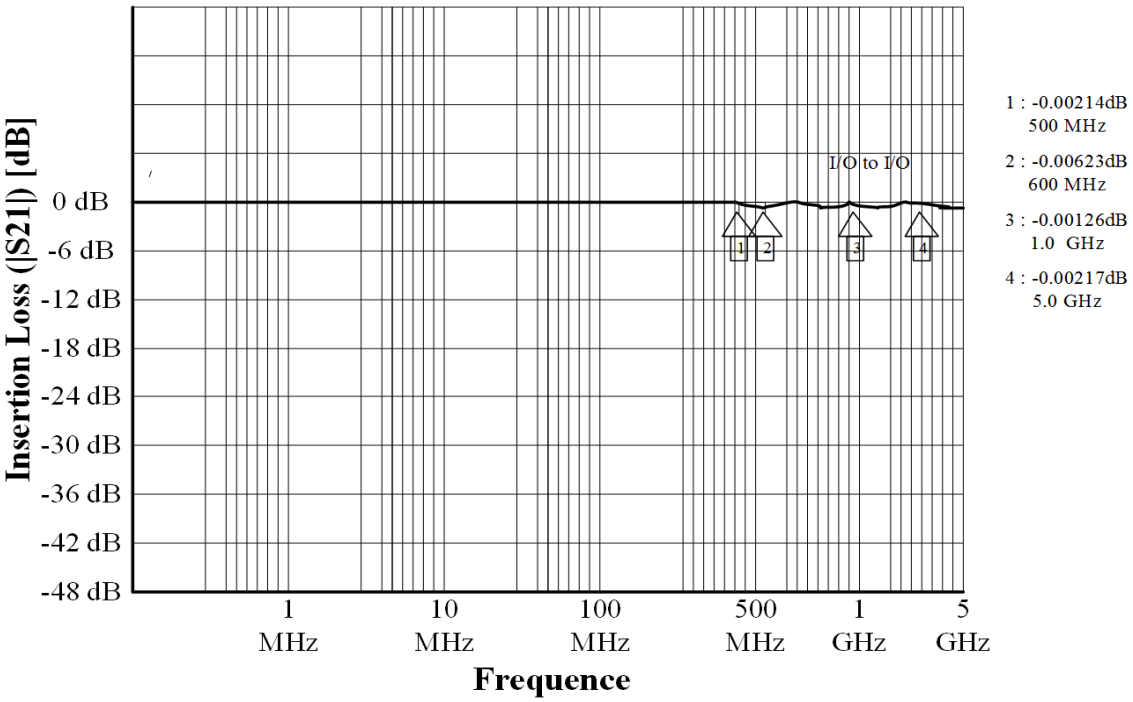
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TYPIC CHARACTERISTICS

Typic Capacitance vs. Reverse Voltage

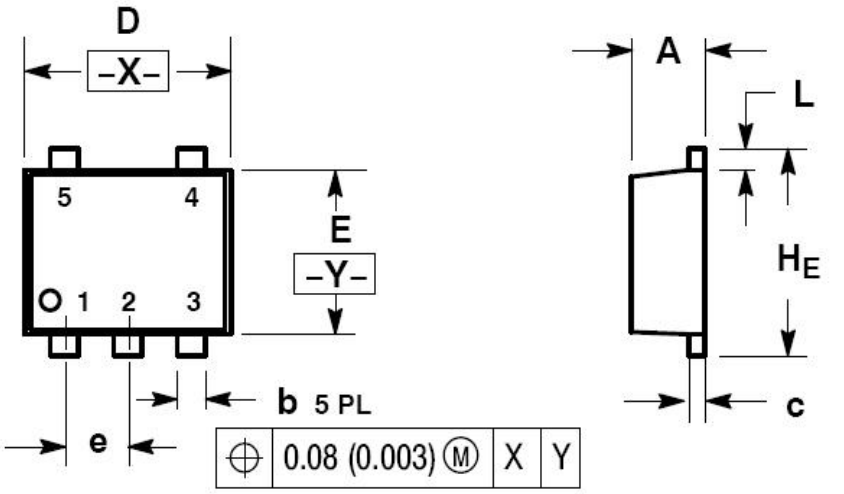


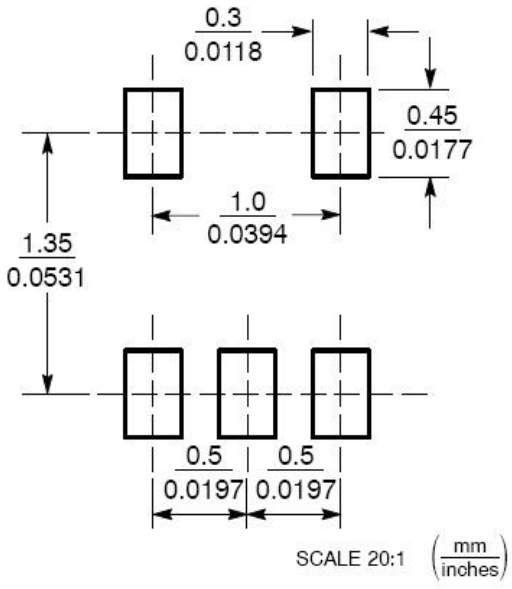
Insection Loss (S21)



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SOT-553 Package Outline & Dimensions





DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.50	0.55	0.60	0.020	0.022	0.024
b	0.17	0.22	0.27	0.007	0.009	0.011
c	0.08	0.13	0.18	0.003	0.005	0.007
D	1.50	1.60	1.70	0.059	0.063	0.067
E	1.10	1.20	1.30	0.043	0.047	0.051
e		0.50 BSC			0.020 BSC	
L	0.10	0.20	0.30	0.004	0.008	0.012
H_E	1.50	1.60	1.70	0.059	0.063	0.067

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