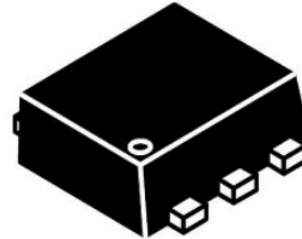


### Features

- 100 Watts Peak Pulse Power per Line ( $t_p=8/20\mu s$ )
- Protects Four Unidirectional I/O Lines
- Low Clamping Voltage
- Working Voltages : 5.0V
- Low Leakage Current
- IEC61000-4-2 (ESD)  $\pm 25kV$  (air),  $\pm 15kV$  (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (LIGHTING) 4A (8/20 $\mu s$ )

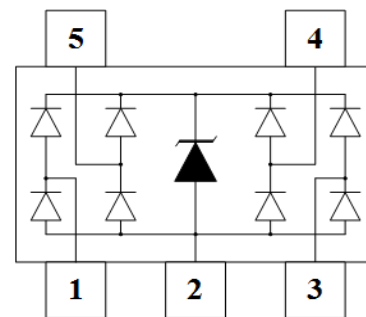
### Dimensions SOT-553



### 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-0
- Weight 3 Milligrams (Approximate)
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

### Absolute Maximum Ratings (T<sub>amb</sub>=25°C unless otherwise specified)

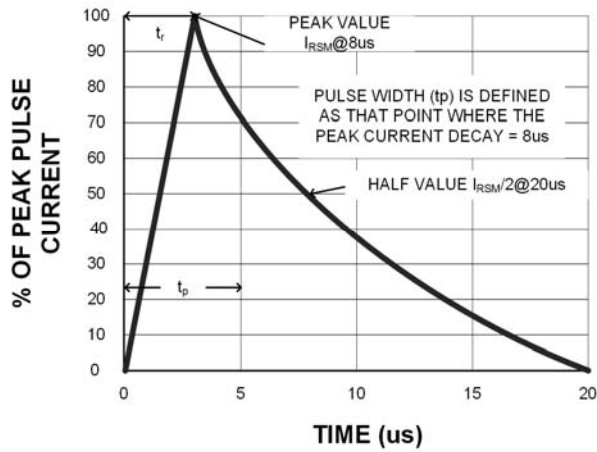
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 $\mu s$ )	P <sub>pp</sub>	100	W
ESD per IEC 61000-4-2 (Air)	V <sub>ESD</sub>	$\pm 25$	Kv
ESD per IEC 61000-4-2 (Contact)		$\pm 15$	
Operating Temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STJ</sub>	-55 to +150	°C

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

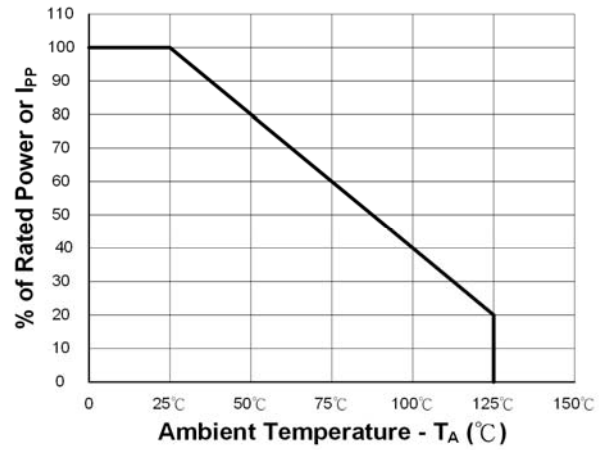
Part Number	Device Marking	V <sub>RWM</sub> (V)	V <sub>BR</sub> (V)	I <sub>T</sub> (mA)	V <sub>C</sub> @1A	V <sub>C</sub>		I <sub>R</sub> μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
ULC0504T5Q	U7	5	6	1	12	25	4	1	0.5

TYPIC CHARACTERISTICS

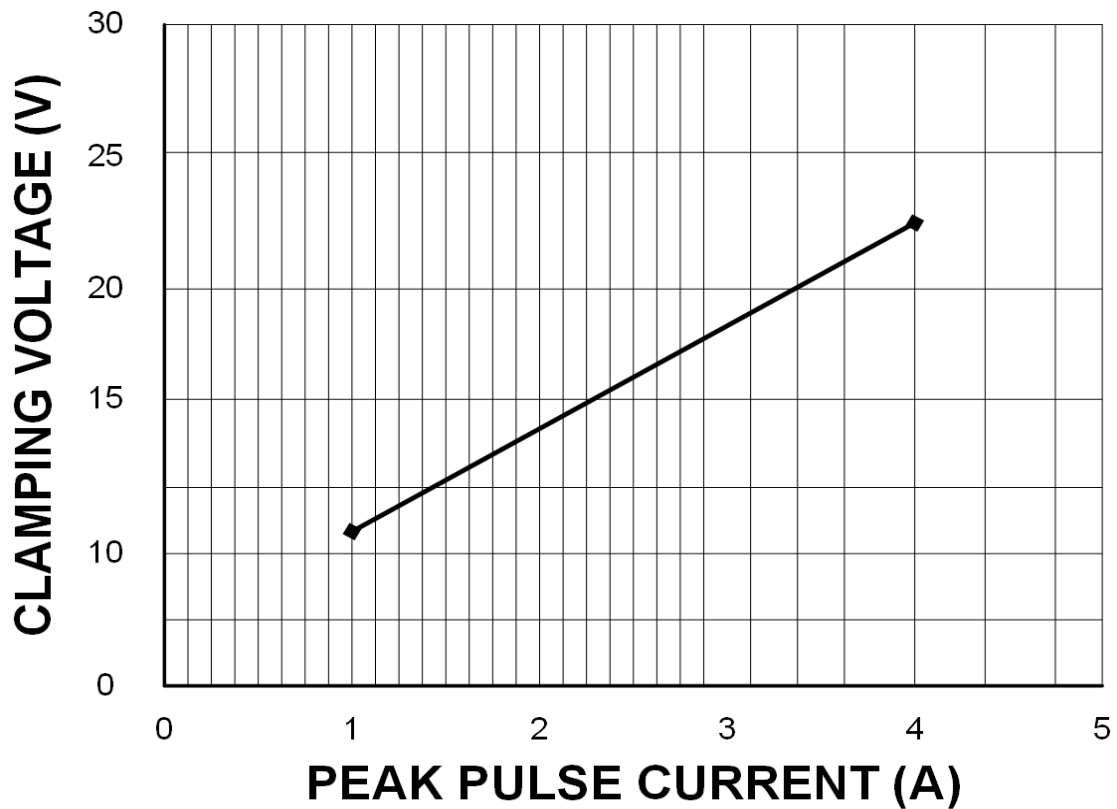
8 x 20  $\mu$ s Waveform



Power Derating Curve

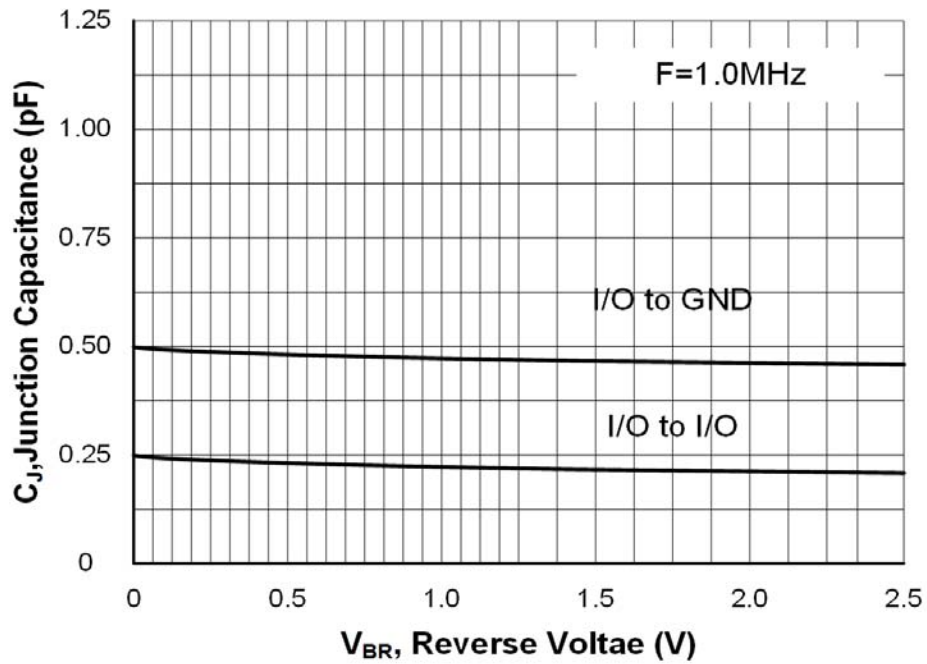


Clamping Voltage vs. Peak Pulse Current ( $t_p=8/20\mu s$ )

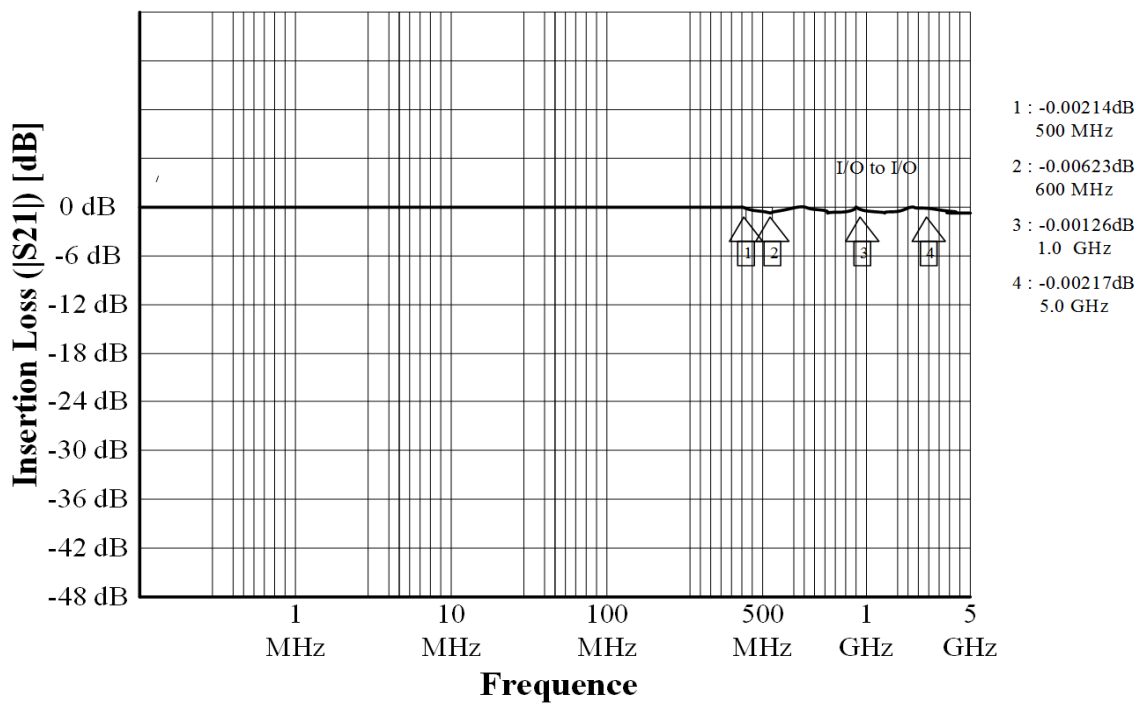


TYPIC CHARACTERISTICS

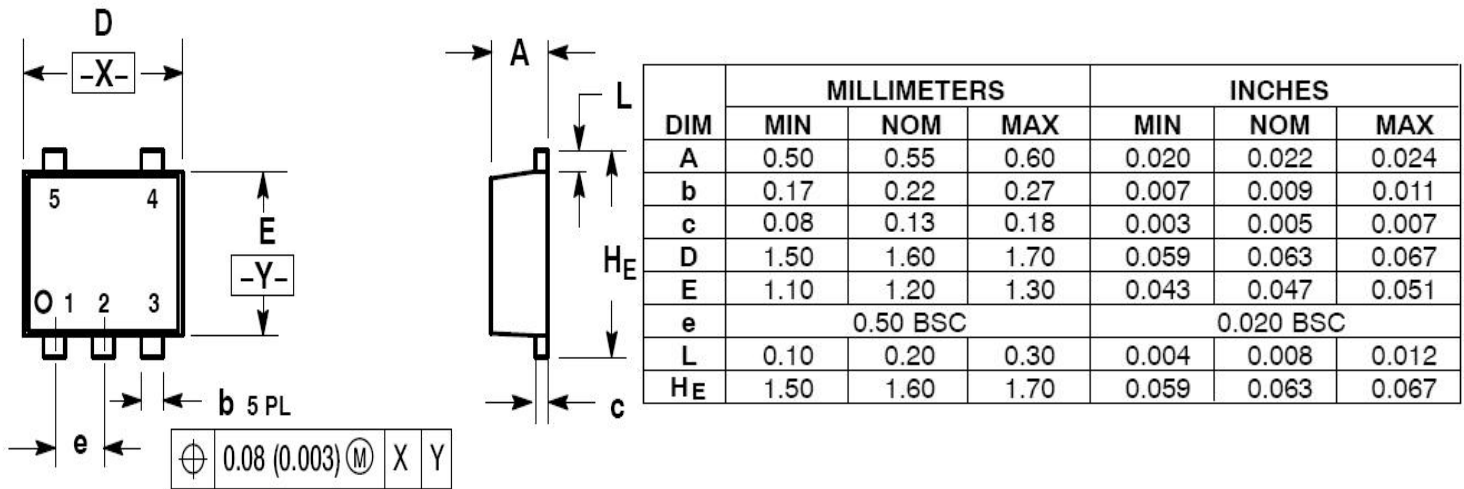
Typic Capacitance vs. Reverse Voltage



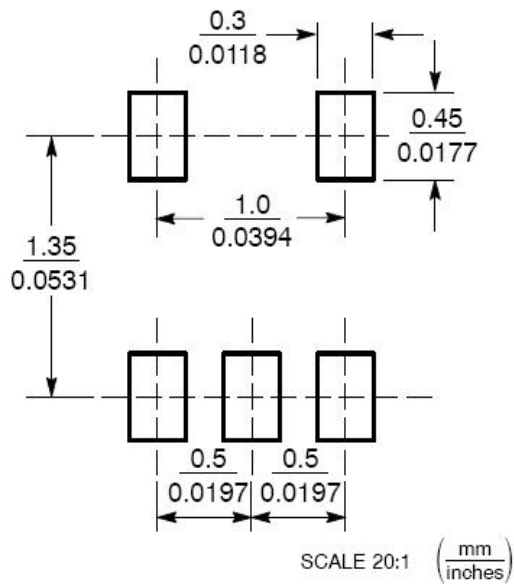
Insertion Loss (S21)



## SOT-553 Package Outline & Dimensions



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