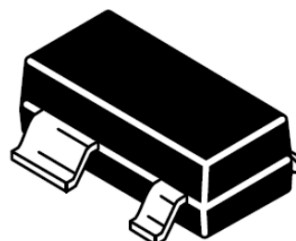


Features

- Protects Two I/O Lines And One Power Line
- Low Clamping Voltage
- Working Voltages : 70V
- Low Leakage Current
- IEC61000-4-2 (ESD) $\pm 17\text{kV}$ (air), $\pm 15\text{kV}$ (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 40A (8/

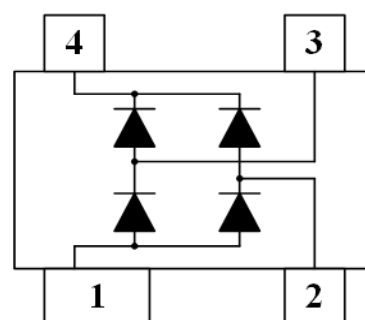
Dimensions SOT-143



Applications

- USB Power & Data Line Protection
- Ethernet 10BaseT
- I²C Bus Protection
- Video Line Protection
- T1/E1 secondary IC Side Protection
- Microcontroller Input Protection
- ISDN S/T Interface
- WAN/LAN Equipment

Pin Configuration



Mechanical Characteristics

- SOT-143 Package
- Molding Compound Flammability Rating : UL 94V-O
- Weight 10 Milligrams (Approximate)
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Current (8/20μs)	P _{pp}	480	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 17	Kv
ESD per IEC 61000-4-2 (Contact)		± 15	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

Electrical Characteristics

(TA=25°C unless otherwise specified)

Part Number	Device Marking	V _{RWM} (V)	V _{BR} (V)	I _T (mA)	V _C @1A	V _C		I _R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
SR70W	CKA	70	85	0.05	1.5	12	40	0.1	3.5

TYPIC CHARACTERISTICS

Figure 1. 8 x 20 μ s Waveform

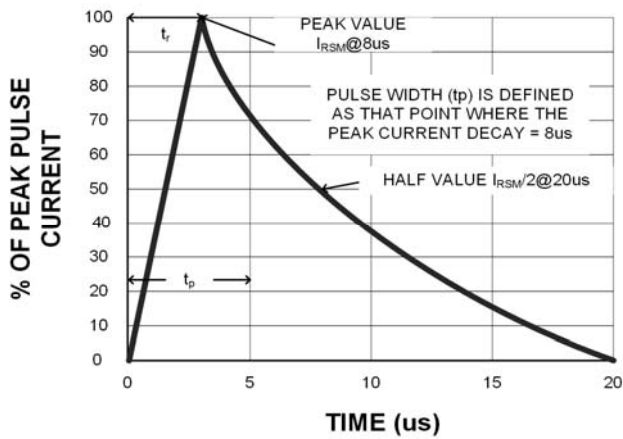


Figure 2. Power Derating Curve

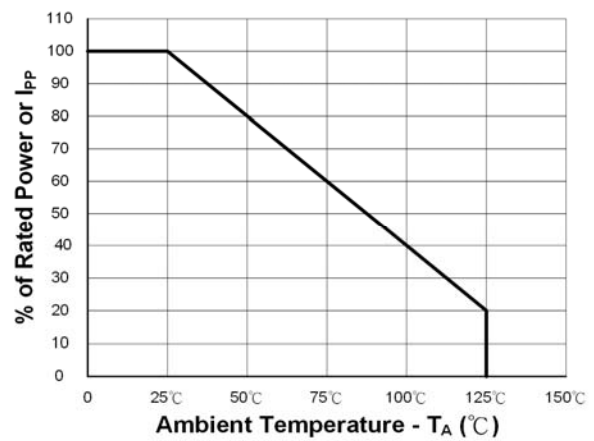
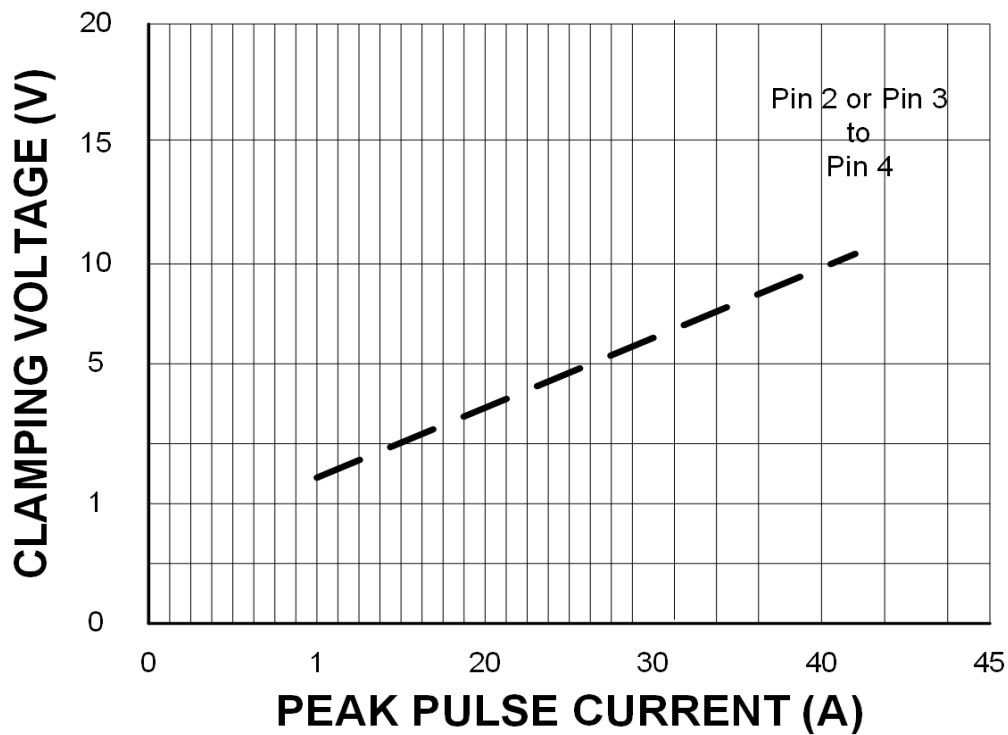


Figure 3. Clamping Voltage vs. Peak Pulse Current ($t_p=8/20 \mu$ s)



TYPIC CHARACTERISTICS

Figure 4. Typic Breakdown Voltage vs. Temperature

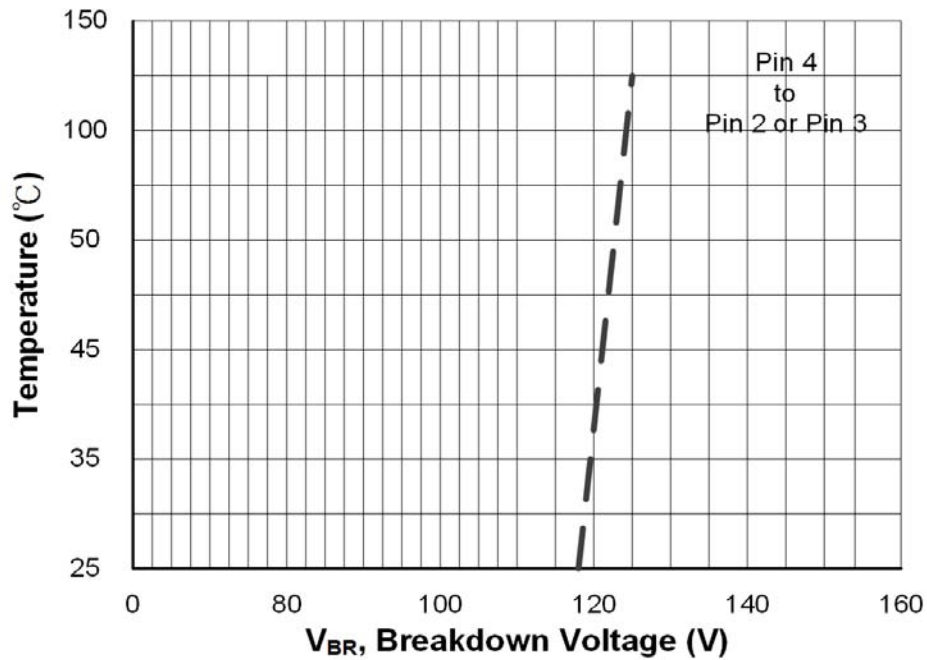
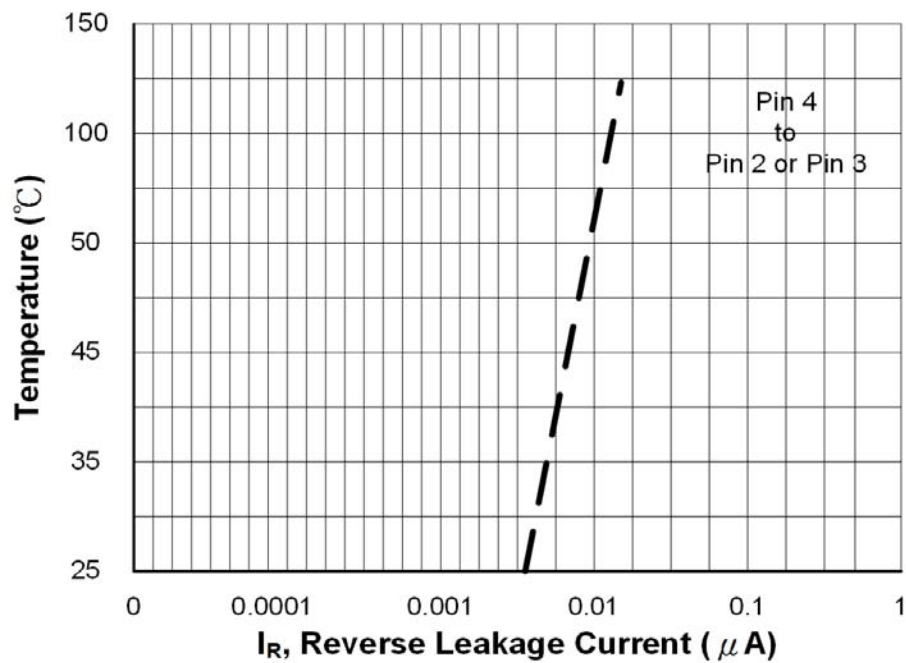
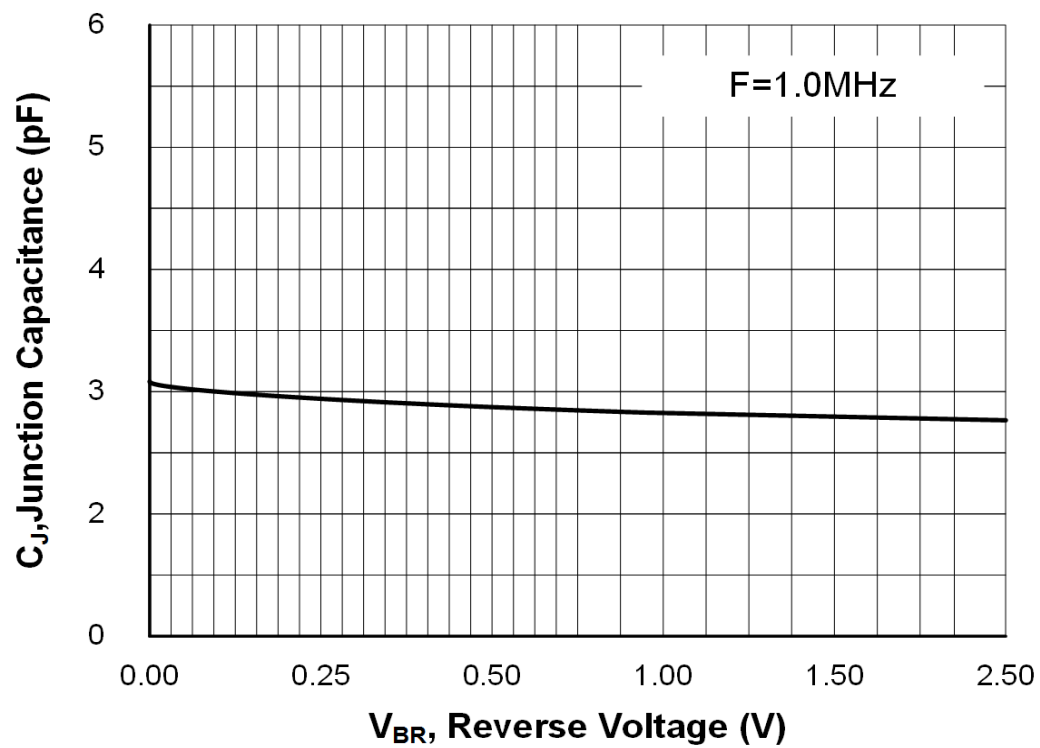


Figure 5. Typic Reverse Current vs. Temperature

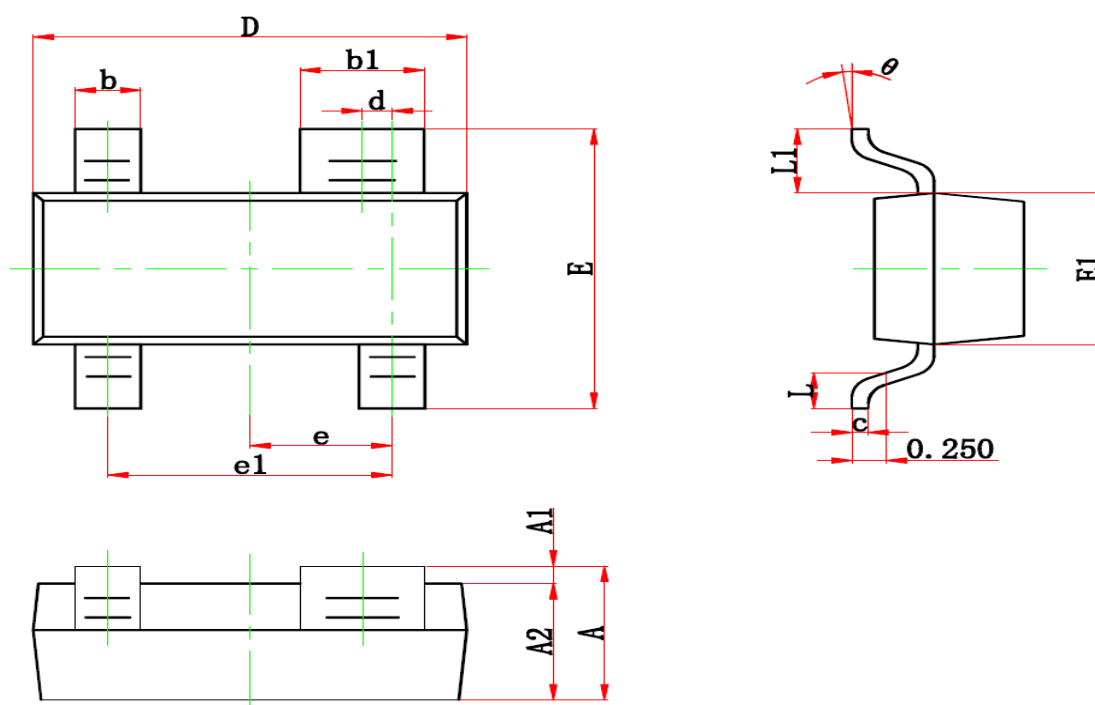


TYPIC CHARACTERISTICS

Figure 7. Typic Capacitance vs. Reverse Voltage



SOT-143 Package Outline & Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
b1	0.750	0.900	0.030	0.035
c	0.080	0.160	0.003	0.006
D	2.800	3.000	0.110	0.118
d	0.200 TYP.		0.008 TYP.	
E	2.250	2.550	0.089	0.100
E1	1.200	1.400	0.047	0.055
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.300	0.500	0.012	0.020
L1	0.550 REF.		0.022 REF.	
θ	0°	8°	0°	8°

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