

Features

- Ultra low leakage: nA level
- Operating voltage: 24V
- Ultra low capacitance 0.8pF (typ)
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: ±30kV
 - Contact discharge: ±30kV
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5 (Lightning)7A (8/20μs)
- RoHS Compliant

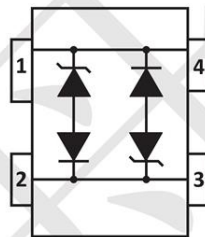
Mechanical Characteristics

- Package: SOT-143
- Lead Finish: Matte Tin
- Case Material: “Green” Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J STD 020
- Shipping Qty :3000pcs/7Inch Tape & Reel

Applications

- Ethernet - 10/100 Base T
- Cellular Phones
- Audio & Video Inputs
- FireWire, SCSI & USB Interfaces

Dimensions and Pin Configuration



Marking: 24L

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

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppk	400	W
Peak Pulse Current (8/20μs)	Ipp	7	A
ESD per IEC 61000-4-2 (Air)	VESD	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

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

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			24	V	
Breakdown Voltage	VBR	26			V	IT = 1mA
Reverse Leakage Current	IR			0.2	uA	VRWM =24V
Clamping Voltage	VC			25	V	Ipp =1A (8 x 20us pulse)
Clamping Voltage	VC			46	V	Ipp = 7A (8 x 20us pulse)
Junction Capacitance	CJ		0.8	1.0	pF	VR = 0V, f = 1MHz (IO to GND)

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)

Fig1. 8/20 μs Pulse Waveform

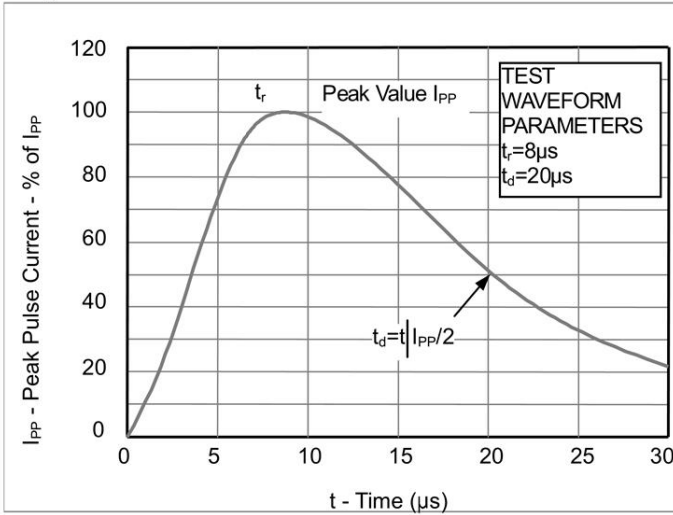


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

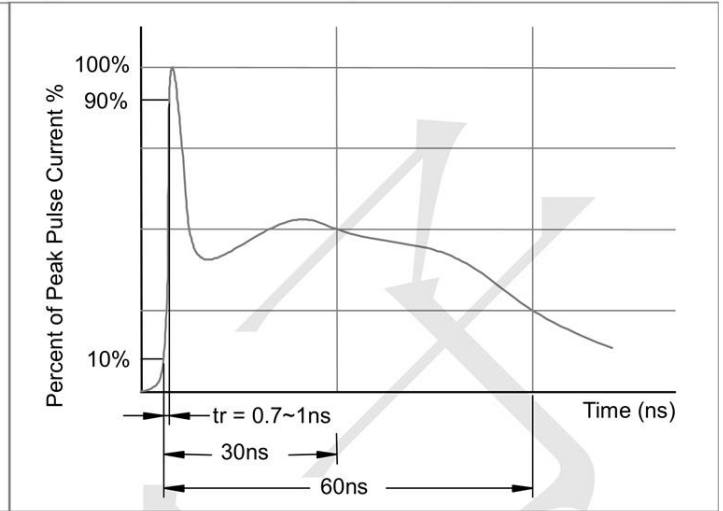
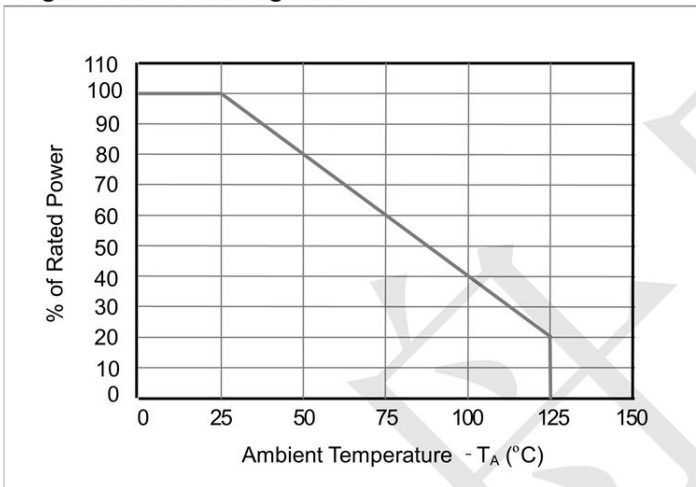
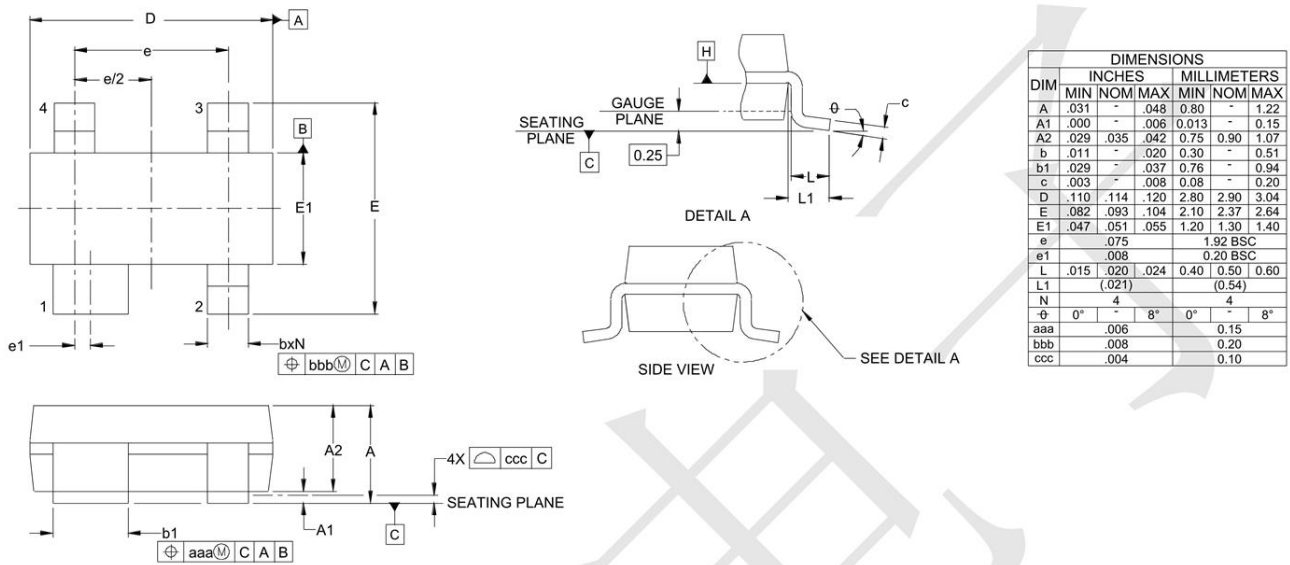


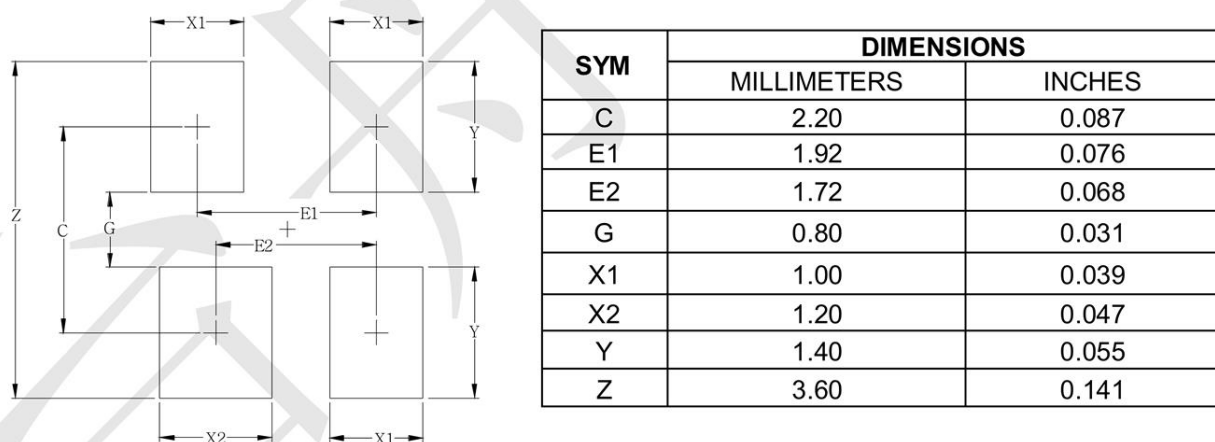
Fig3. Power Derating Curve



Outline Drawing - SOT-143



Land Pattern -SOT-143



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