

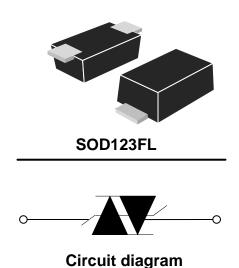
Transient Suppressor Protection Device BT008SS

Descriptions

Boarden BT008SS is professionally designed to protect high speed Security Equipments from both Lightning Surge and ESD events. BT008SS can help equipment to meet Telecom standard as ITU K.20/K21, and ESD standard as IEC 61000-4-5. The device is with a ultra-high ESD Protections capability as against ESD surge wave as 30KV (contact) and 30KV (air), as well as extremely high lightning endurance capability as 2000V(10/700us) with small factor as SOD123FL. The inherent low off-state leakage current provides superior performance in low voltage high speed applications. These characteristics allow protection of the system without distortion of the high speed data signal.

Features

- Low Protection Voltage
- Low Leakage Current less than 5µA
- Bi-direction Protection Devices
- Response Time is < 1ns
- Solid-state silicon technology
- RoHS Compliant
- Meets MSL 1 Requirements



Applications

- Audio/Video Line
- RS-485
- Peripherals
- Networking and Telecom
- Serial and Parallel Ports

Order information

Device	Quantity	Reel Size
BT008SS	3000	7 Inch

Device Ratings and Specifications

Parameter	Symbol	Condition	Value	Unit
Peak Off-state Voltage	Vdrm		6	V
Maximum Off-state Current	I _{DRM}	@V _{DRM}	5	μA
Maximum Switching Voltage	Vs	@ls	20	V
Switching Current	ls		800	mA
Maximum On-state Voltage	VT	@I⊤	4	V
On-state Current	Ι _Τ		2.2	А
Minimum Holding Current	Ін		30	mA
Off-state Capacitance	C ₀	@2Vdc, 1MHz	50	pF
Repetitive Peak Pulse Voltage		@10/700µs	2000	V
Peak Pulse Current		@8/20µs	130	А
Operating Junction Temperature	TJ		-40 to +150	°C
Storage Temperature Range	Ts		-55 to +150	°C
Junction to Ambient on Printed Circuit	R _{0JA}		90	°C/W

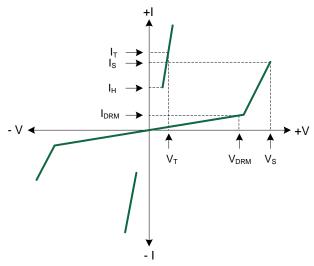


Device Ratings and Specifications

Waveform	8x20 us	10/700us	ESD Air	ESD Contact
Value	130 A	2000V	30 kV	30 kV

Typical electrical characters applications

V - I Characteristics



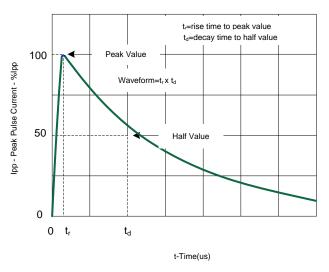
Product Dimensions

Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.0984	0.1142	2.50	2.90
В	0.1339	0.1535	3.40	3.90
С	0.0275	0.0472	0.70	1.20
D	0.0591	0.0787	1.50	2.00
E	0.0138	0.0354	0.35	0.90
F	0.0020	0.0102	0.05	0.26
G	0.0000	0.0039	0.00	0.10
н	0.0374	0.0433	0.95	1.10

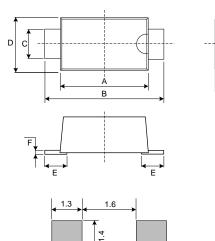
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Trxtd Pulse Waveform



SOD123FL



Mounting Pad Layout (mm)

Boarden Electronics Ltd.