

SPD9211B

1-Line, Bi-directional, Thyristor Surge Suppressors

Descriptions

The SPD9211B is a bi-directional TSS (Thyristor Surge Suppressors). It is specifically designed to protect telephones, fax machines, communication connections, modems, video lines and so on.

The SPD9211B is used to enable equipment to meet various regulatory requirements including IEC 61000-4-5, GR-1089-CORE, ITU-T K.20, K.21 and K.45, IEC 60950, UL 60950, and TIA-968.

The SPD9211B is available in SMB package. Standard products are Pb-free and Halogen-free.

Features

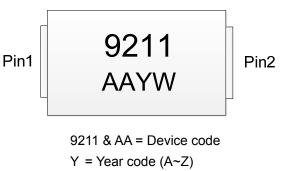
- Reverse stand-off voltage: ±6.0V Max
- Excellent capability of absorbing transient surge
- Quick response to surge voltage
- Eliminate voltage overshoot caused by fast-rising transients
- Low capacitance: C_J = 55pF typ.
- Low leakage current:
- Solid-state silicon technology, non degenerative

Applications

- Audio/Video line
- Network and telecom
- Data lines and security systems
- Serial ports



SMB (DO-214AA)



W = Week code (A \sim Z)

Marking (Top View)

Order information

Device	Package	Shipping
SPD9211B-2/TR	SMB	3000/Tape&Reel



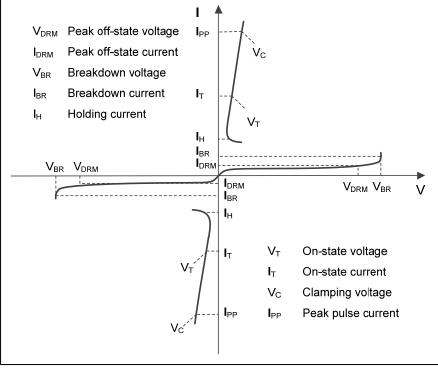
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Absolute maximum ratings

Parameter		Rating	Unit	
Non-repetitive peak pulse current				
8/20µs (IEC 61000-4-5, 1.2/50µs voltage wave shape)		±300	A	
10/700µs (ITU-T K.20/21/45, K.44 10/700µs voltage wave shape)		±2000	V	
10/1000µs (GR-1089-CORE, 10/1000µs voltage wave shape)		±50	А	
Operation junction temperature		-40~150	°C	
Storage temperature		-55~150	°C	
Lead temperature		260	°C	
Junction to ambient thermal resistance		90	°C/W	

Electrical characteristics (T_A=25 °C, unless otherwise noted)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Peak off-state voltage	V_{DRM}				±6	V
Peak off-state current	I _{DRM}	V _{DRM} = ±6V			1	μA
Breakdown voltage	V_{BR}	I _{BR} = 0.5mA	6.2			V
Holding current	I _H			30	50	mA
On-state current	Ι _Τ				2.2	А
On-state voltage	V _T	I _T = 2.2A			4	V
Junction capacitance	CJ	V _R = 2V, f = 1MHz		55		pF



Definitions of electrical characteristics