TISP4011H1BJ

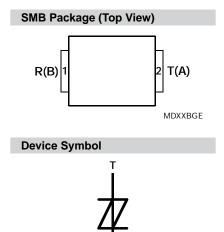


VERY LOW VOLTAGE BIDIRECTIONAL THYRISTOR OVERVOLTAGE PROTECTORS

TISP4011H1BJ VLV Overvoltage Protector Series

General Information

The protector consists of a symmetrical voltage-triggered bidirectional thyristor. Overvoltages are initially clipped by breakdown clamping until the voltage rises to the breakover level, which causes the device to crowbar into a low-voltage on-state condition. This low-voltage on-state causes the current resulting from the overvoltage to be safely diverted through the device. The device switches off when the diverted current falls below the holding current value.



Additional Information

Click these links for more information:



Agency Recognition

	Description
UL	File Number: E215609

Terminals T and R correspond to the alternative line designators of A and B

R

SD4XAA

Absolute Maximum Ratings, T_A = 25 °C (Unless Otherwise Noted)

Rating	Symbo	I Value	Unit
Repetitive peak off-state voltage	V _{DRM}	±5.25	V
Non-repetitive peak on-state pulse current 10/1000 μ s 2/10 μ s	IPPSM	±100 ±500	A
Junction temperature	ТJ	-40 to +150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics, T_A = 25 °C (Unless Otherwise Noted)

	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
۱ _D	Leakage current	$V_{D} = V_{DRM}$		1	200	μA
V _(BO)	Breakover voltage	di/dt = ±1 mA/µs		9	10.5	V
I(BO)	Breakover current	di/dt = $\pm 1 \text{ mA}/\mu \text{s}$		75	200	mA
VT	On-state voltage	IT = ±5 A			3	V
Чн	Holding current	$I_T = \pm 5 \text{ A}, \text{ di/dt} = \pm 1 \text{ mA/}\mu\text{s}$	20	60		mA
Coff	Off-state capacitance	V _d = 0 V, f = 1 MHz, 1 Vrms		110		pF



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TISP4011H1BJ VLV Overvoltage Protector Series

Parameter Measurement Information

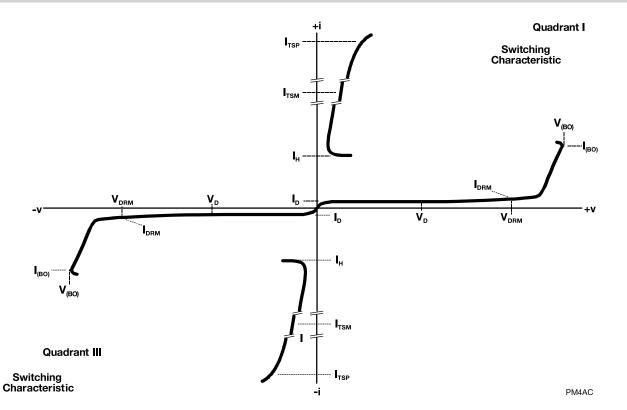


Figure 1. Voltage-Current Characteristic for T and R Terminals All Measurements are Referenced to the R Terminal

How to Order

Device	Package	Carrier	Order as
TISP4011H1BJ	BJ (SMB/DO-214AA J-Bend)	R (Embossed Tape Reeled)	TISP4011H1BJR-S

Carrier Information

For production quantities, the carrier will be embossed tape reel pack. Evaluation quantities may be shipped in bulk pack or embossed tape.

Package	Carrier	Standard Quantity
SMB	Embossed Tape Reel Pack	3000

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