Surface Mount Surge Suppressors Bridge FEATURES

- Green Molding Compound (No Halogen and Antimony)
- Lower clamping voltage
- · Glass Passivated Chip Junction
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

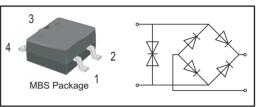
· Case: MBS

•Terminals: Solderable per MIL-STD-750, Method 2026 •Approx. Weight: 100mg / 0.0035oz

Maximum Ratings and Thermal Characteristics(TA = 25°C unless otherwise specified)
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

PINNING

PIN	DESCRIPTION		
1	Input Pin (~)		
2	Input Pin (~)		
3	Output Anode (+)		
4	Output Cathode (-)		

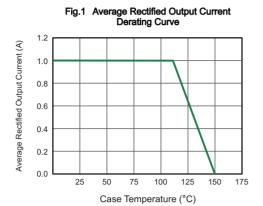


Parameter of Bridge Rectifier	Symbols	STB110S	Units
Average Rectified Output Current	Io	1.0	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30	А
Maximum Forward Voltage at 1.0A	V _F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage (@VR=1000V)	I _R	5 40	μΑ
Typical Junction Capacitance (f=1MHz,4V DC)	C _j	7	pF
Typical Thermal Resistance (Note1)	R _{0JA} R _{0JC} R _{0JL}	45 15 25	°C/W
Operating and Storage Temperature Range	T_j , T_{stg}	-55 ~ +150	°C

Note: 1. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Parameter of TVS	Symbol	STB110S	Unit
Maximum allowable continuous AC voltage at 50-60Hz	V_{RMS}	125	V
Breakdown voltage @1mA	V_{BR}	190(MIN)	V
Maximum allowable continuous DC voltage	V _{DC}	170	V
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150	°C







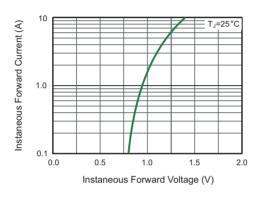


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

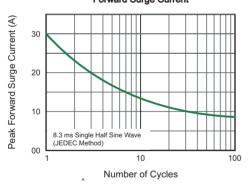


Fig.7 Pulse Waveform

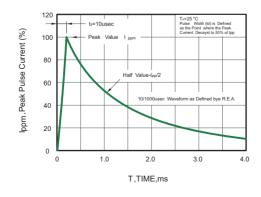


Fig.2 Typical Reverse Characteristics

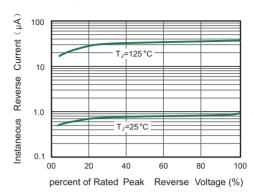


Fig.4 Typical Junction Capacitance

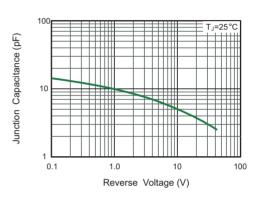
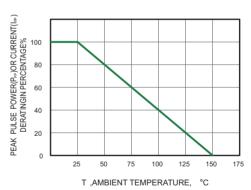


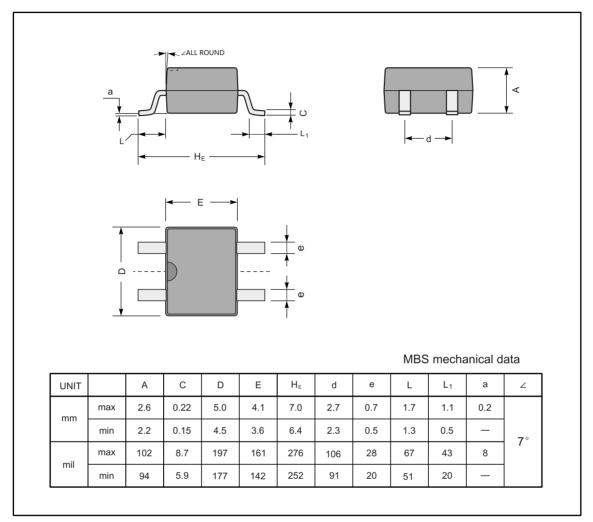
Fig.6 Forward Current Derating Curve



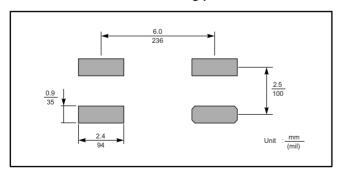
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

MBS



The recommended mounting pad size



Marking

Type number	Marking code
STB110S	STB110S

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