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

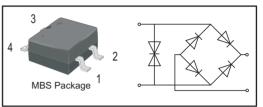
· Case: MBS

•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 (-)		



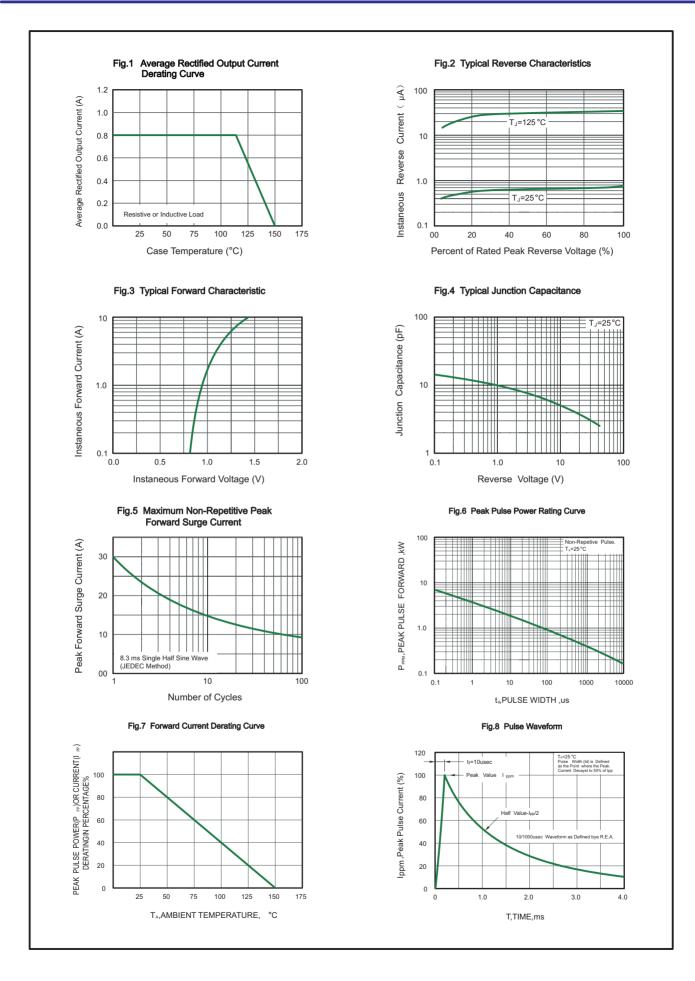
Parameter of Bridge Rectifier	Symbols	48CMB10S	Units
Average Rectified Output Current	Io	0.8	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30	А
Maximum Forward Voltage at 0.8A	V _F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage (@VR=1000V)	I _R	5 40	μΑ
Typical Junction Capacitance (f=1MHz,4V DC)	C _j	7	pF
Typical Thermal Resistance (Note1)	R _{θJA} R _{θJC} R _{θJL}	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	48CMB10S	Unit
Maximum allowable continuous AC voltage at 50-60Hz	V _{RMS}	34	V
Breakdown voltage	V_{BR}	53.3~58.9	V
Maximum allowable continuous DC voltage	V _{DC}	48	V
Maximum allowable clamping voltage	Vc	77.4	V
Maximum peak pulse current	I _{pp}	5.2	А
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

NOTES:

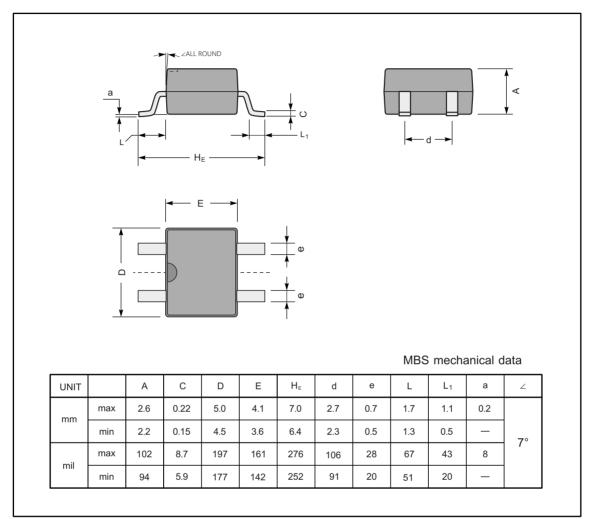
- 1. The breakdown voltage was measured at 1mA
- 2. The clamping voltage was measured at 10/1000µs standard current
- 3. The peak pulse current was tested at 10/1000µs waveform



PACKAGE OUTLINE

Plastic surface mounted package; 4 leads





The recommended mounting pad size

0.9 35 Unit: mm/(mil)

Marking

Type number	Marking code
48CMB10S	48C08

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