FEATURES:

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

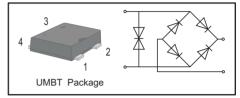
MECHANICAL DATA

• Case: UMBT

Terminals: Solderable per MIL-STD-750, Method 2026
Approx. Weight: 60mg/0.0021oz

PINNING

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



Maximum Ratings and Electrical characteristics

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 %.

Parameter	Symbols	BP47CUM10B-10	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 1.0 A	V _F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $@T_A=25 \text{ °C}$ $@T_A=125 \text{ °C}$ $@T_A=125 \text{ °C}$	I _R	5 40	μA
Typical Junction Capacitance (Note1)	C _j	7	pF
Typical Thermal Resistance (Note2)	$egin{array}{c} R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL} \end{array}$	45 15 25	C°/W
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ + 150	°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

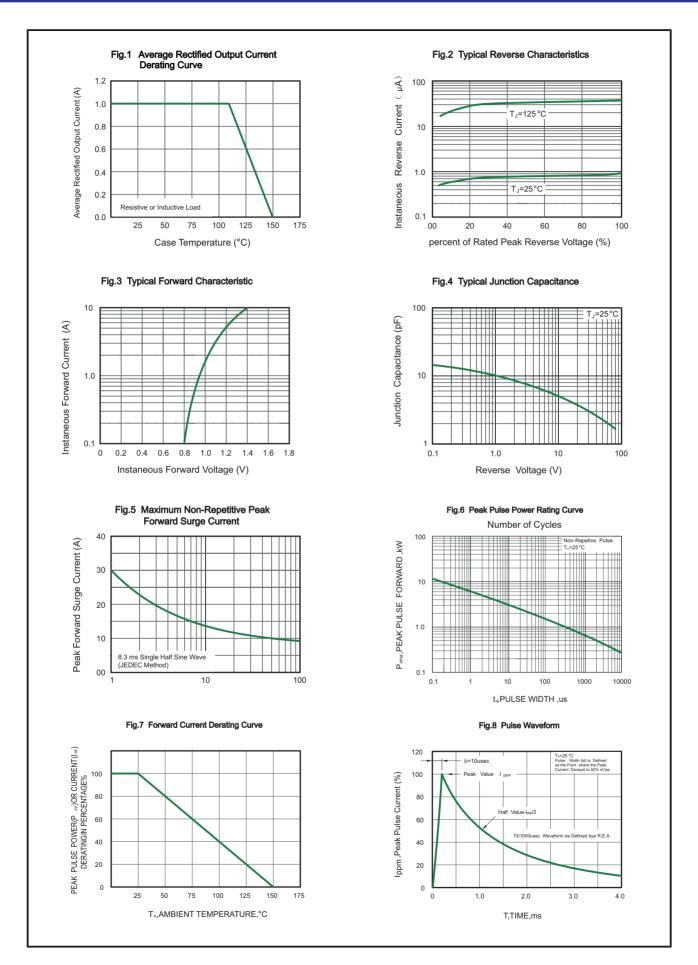
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Maximum Ratings and Thermal Characteristics(TA = 25°C unless otherwise specified)

Parameter of TVS	Symbol	BP47CUM10B-10	Unit
Maximum allowable continuous AC voltage at 50-60Hz	V _{RMS}	28	V
Breakdown voltage	V_{BR}	44.7~49.4	V
Maximum allowable continuous DC voltage	V _{DC}	40.2	V
Maximum allowable clamping voltage	Vc	64.8	V
Maximum peak pulse current	I _{pp}	10.2	Α
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150	°C

NOTES:

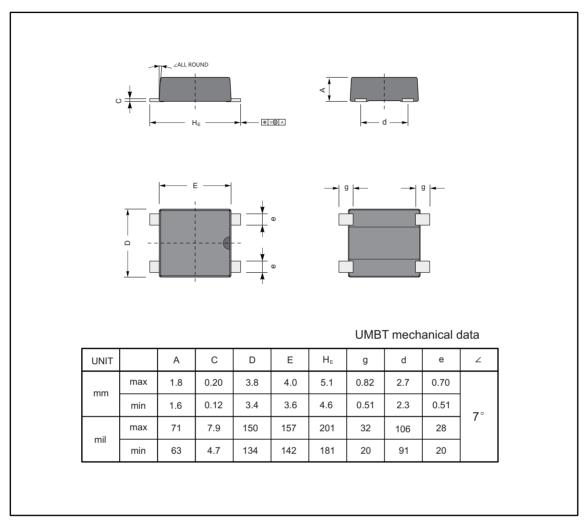
- 1. The breakdown voltage was measured at 1mA
- 2. The clamping voltage was measured at $10/1000\mu s$ standard current
- 3. The peak pulse current was tested at 10/1000µs waveform



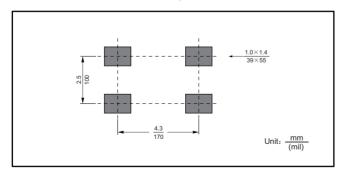
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

UMBT



The recommended mounting pad size



Marking

Type number	Marking code
BP47CUM10B-10	BP47C10

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