



Features

- Surface mount bridge, small package;
- Ideal for printed circuit boards;
- Glass passivated chip junction;
- High forward current capability up to 5.0A;
- High surge current capability;
- High heat dissipation capability;
- Low profile package;
- Low forward voltage drop;
- Plastic package has Underwrites Laboratory Flammability Classification 94V-0;

Mechanical Data

• Case: HBS:

Epoxy meets UL-94V-0 Flammability rating;

 Terminals:Matte tin plated leads, solderable per J-STD-002 and JESD22-B102;

 High temperature soldering guaranteed: Solder Reflow 260°C,10seconds;

Polarity: As marked on body;

• Marking: Type number;



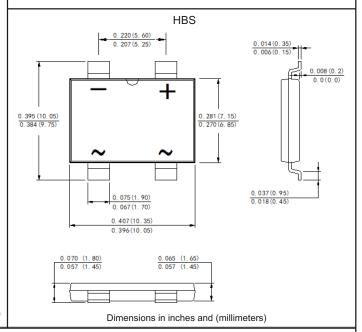
HBS Package

VOLTAGE RANGE

200 to 1000 Volts

CURRENT

5.0 Amperes



Maximum Ratings and Electrical characteristics

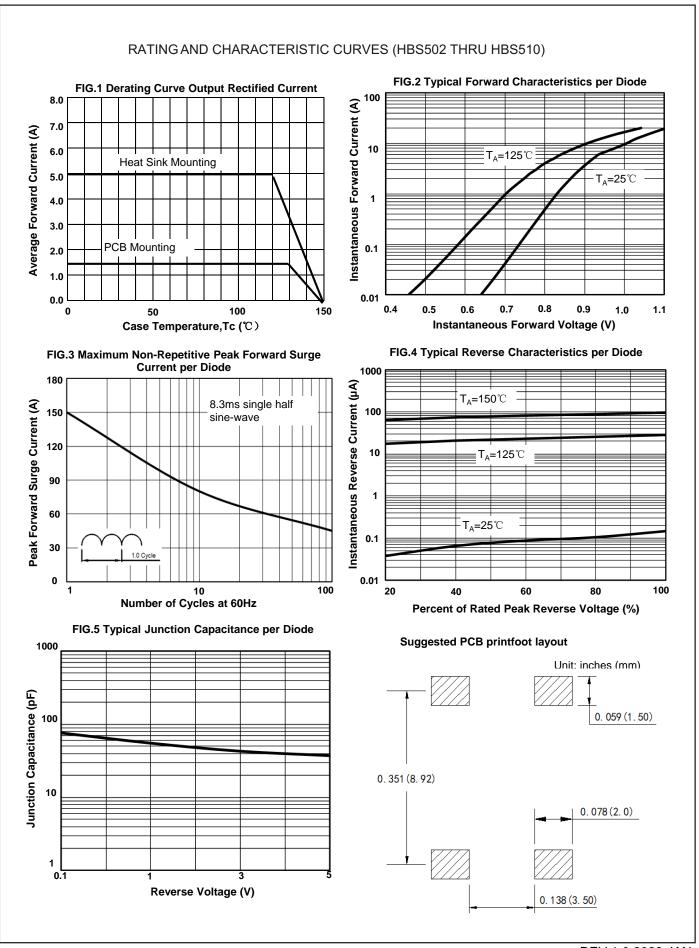
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	HBS502	HBS504	HBS506	HBS508	HBS510	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Average Rectified Output Current	I _o	5.0					Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150					А
I ² t Rating for Fusing	I ² t	93					A ² S
Maximum Forward Voltage at 1.0 A	V _F	0.83 (typ.)					V
Maximum Forward Voltage at 5.0 A	V _F	1.0					V
Maximum DC Reverse Current @T _A =25 °C at Rated DC Blocking Voltage @T _A =125 °C	I _R	5 100					μА
Typical Junction Capacitance (Note1)	Cj	38					pF
Typical Thermal Resistance (Note2)	$egin{array}{c} R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL} \end{array}$	69 12 12					°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.



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