

HBS802 THRU HBS810

Case: HBS

0.281(7.15)

RoHS

COMPLIAN

0.008(0.2)

0.0(0.0)

~2

Ph

0.014(0.35)

0.037(0.95)

0.018(0.45)

Glass Passivated Single-Phase 8.0Amp Surface Mount Bridge Rectifier

0, 220 (5, 60)

0. 207 (5. 25

0.075(1.90)

0. 067 (1. 70)

0.396(10.05)

0.070 (1.80)

4

Features

- Surface mount bridge, small package;
- Ideal for printed circuit boards;
- Glass passivated chip junction;
- High forward current capability up to 8.0A;
- 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;

Typical Applications

General purpose use in AC-to-DC bridge full wave rectification for Fast Charging, Switching Power Supply, USB PD, Adapter and 3-in-1 Power Board, etc.

Dimensions in inches and

0.065 (1.65) 0.057 (1.45)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

0. 395 (10. 05) 0. 384 (9. 75)

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Parameter		Symbol	HBS802	HBS804	HBS806	HBS808	HBS810	Unit
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
Maximum average forward T _A =25℃ rectified output current at		I _{F(AV)}	8.0					Amps
Non-Repetitive Peak forward surge current 8.3 ms single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	200					Amps
Rating for fusing (t<8.3ms)		l ² t	166					A ² sec
Instantaneous forward voltage drop per diode	@IF=1.0A @IF=4.0A @IF=8.0A	V _F		0.82 Ty 0.89 Ty 0.94 Ty	p. 0.	87 max. 94 max. 1.0max.		Volt
Reverse Current at Rated DC Blocking Voltage	T _A =25℃ T _A =125℃	I _R		0.15 Ty 20.0 Ty	•	.0 max. 00 max.		μA
Typical capacitance (note1)		Cj	49				pF	
Typical thermal resistance		R _{θJ-A} R _{θJ-C} R _{θJ-L}	70.0 11.0 14.0					°C/W
Operating junction and Storage Temperature Range		T _J ,T _{STG}	-55 to +150				ĉ	

Note1: Measured at 1.0MHz and applied reverse voltage of 5.0V DC;

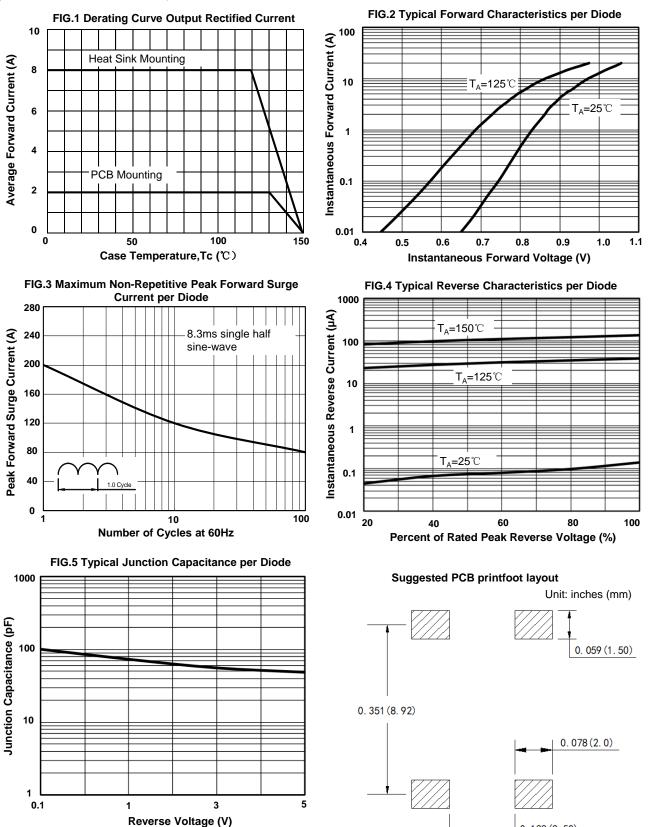


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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



0.138 (3.50)



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