

HBS802H~HBS810H

Voltage 200V~1000V 8.0 Amp Surface Mount Bridge Rectifier

RoHS Compliant Product

FEATURES

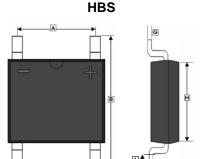
- Surface mount bridge, small package
- Ideal for printed circuit boards
- Glass passivated chip junction
- High forward current capability up to 8A
- High surge current capability
- High heat dissipation capability
- Low profile package
- Low forward voltage drop
- Plastic package has Underwrites Laboratory Flammability Classification 94V-0

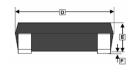
MECHANICAL DATA

- Case: HBS
- 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

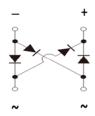
ORDER INFORMATION

Part Number	Туре					
HBS802H~HBS810H	Lead (Pb)-free and Halogen-free					





REF.	Millimeter		REF.	Millimeter		
KEF.	Min.	Max.	KEF.	Min.	Max.	
Α	5.25	5.60	F	-	0.2	
В	9.75	10.05	G	0.15	0.35	
С	1.70	1.90	Н	6.85	7.15	
D	10.05	10.35	Ī	0.45	0.95	
Е	1.45	1.65				



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number				l Init			
			HBS802H	HBS804H	HBS806H	HBS808H	HBS810H	Unit		
Maximum Peak Repetitive Reverse Voltage		V _{RRM}	200	400	600	800	1000			
Maximum RMS Voltage		V _{RMS}	140	280	420	560	700	V		
Maximum DC Blocking Voltage		V _{DC}	200	400	600	800	1000			
Average Rectified Output Current ²		l _F	8				Α			
Non-Repetitive Peak Forward Surge Current @8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	200				А			
Rating for Fusing (t<8.3ms)	Rating for Fusing (t<8.3ms)		166				A ² s			
Instantaneous Forward Voltage Drop Per Diode	I _F =1A	VF	0.87 0.94				V			
	I _F =4A									
	I _F =8A				1					
Peak Reverse Current @Rated DC Blocking Voltage	T _A =25°C	I _R	5							
	T _A =125°C				100			μΑ		
Typical Capacitance ¹		Сл	49				pF			
Typical Thermal Resistance		$R_{\theta JA}$	70							
		R _{θJC}			11			°C/W		
		R _{0JL}			14					
Operating & Storage Temperature Range		T _J , T _{STG}	-55~150				°C			

Notes:

- 1. Measured at 1MHz and applied reverse voltage of 5V D.C.
- 2. Device mounted on 20mm x 20mm x1.6mm AL pad, attached on 100mm x 80mm x 30mm Fin heat sink.

http://www.SeCoSGmbH.com/

Any changes of specification will not be informed individually

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RATINGS AND CHARACTERISTIC CURVES

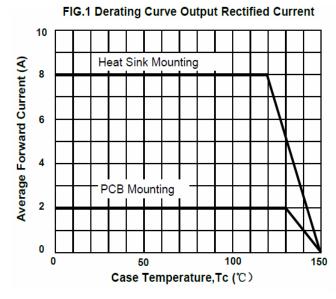


FIG.2 Typical Forward Characteristics per Diode

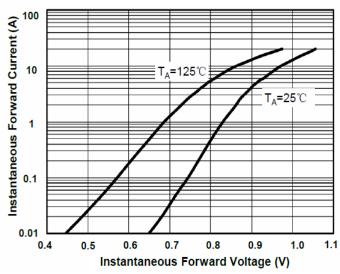


FIG.3 Maximum Non-Repetitive Peak Forward Surge Current per Diode

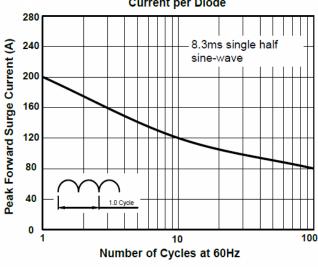


FIG.4 Typical Reverse Characteristics per Diode

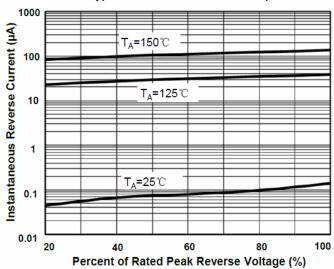


FIG.5 Typical Junction Capacitance per Diode

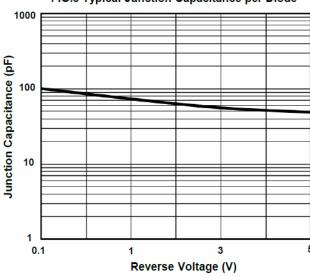
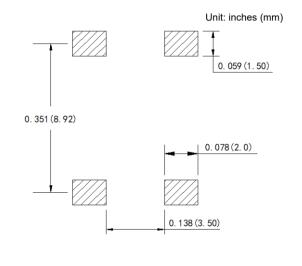


FIG. 6 Mounting Pad Layout



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