

HBS62~HBS610

Voltage 200V~1000V 6.0 Amp Surface Mount Bridge Rectifier

RoHS Compliant Product A suffix of "-C" specifies halogen & lead-free

FEATURES

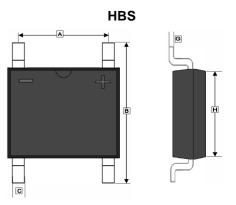
- Surface mount bridge, small package
- Ideal for printed circuit boards
- Glass passivated chip junction
- High forward current capability up to 6.0A
- High surge current capability
- · High heat dissipation capability
- Low profile package
- Low forward voltage drop
- Plastic package has Underwrites Laboratory Flammability Classification 94V-0

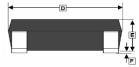
MECHANICAL DATA

- Case: HBS
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22-B102
- High temperature soldering guaranteed: Solder Reflow 260℃, 10seconds
- Polarity: As marked on body
- Marking: Type Number

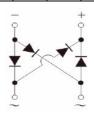
ORDER INFORMATION

| Part Number | Туре | | | |
|------------------|---------------------------------|--|--|--|
| HBS62~HBS610 | Lead (Pb)-free | | | |
| HBS62-H~HBS610-H | Lead (Pb)-free and Halogen-free | | | |





| | Millimeter | | REF. | Millimeter | | |
|---|------------|------|------|------------|------|--|
| | Min. | Max. | KEF. | Min. | Max. | |
| Α | 4.88 | 5.28 | Е | 2.3 | 2.7 | |
| В | 9.1 | 9.9 | ш | | 0.2 | |
| C | 1.2 | 1.6 | G | 0.2 | 0.3 | |
| D | 7.95 | 8.35 | H | 6.1 | 6.5 | |



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| Parameter | | Symbol | Part Number | | | | | l lmi4 |
|--|----------------------|------------------|-------------|-------|-------|-------|------------------|----------|
| | | | HBS62 | HBS64 | HBS66 | HBS68 | HBS610 | 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 | T _C =75℃ | | 6 | | | | | |
| | T _C =129℃ | l _F | 1.4 | | | | | A |
| Non-Repetitive Peak Forward Surge Current | | | | | | | | |
| @8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | | I _{FSM} | 180 | | | | Α | |
| Rating for Fusing (t<8.3ms) | | l ² t | 134 | | | | A ² s | |
| Forward Voltage per diode | I _F =1A | | 0.89 | | | | V | |
| | I _F =3A | V _F | 0.94 | | | | | |
| | I _F =6A | | | 1 | | | | <u> </u> |
| Peak Reverse Current | T _A =25℃ | | 5 | | | | | |
| @DC Blocking Voltage | T _A =125℃ | I _R | 100 | | | | | μA |
| Typical Capacitance ¹ | | CJ | 45 | | | | | pF |
| Typical Thermal Resistance | | $R_{\theta JA}$ | 75 | | | | | |
| | | $R_{	heta Jc}$ | 13 | | | | | €\M |
| | | $R_{\theta JL}$ | 14 | | | | | |
| Operating and Storage Temperature Range | | T_J, T_{STG} | -55~150 | | | | | C |

Note:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

http://www.SeCoSGmbH.com/

Any changes of specification will not be informed individually

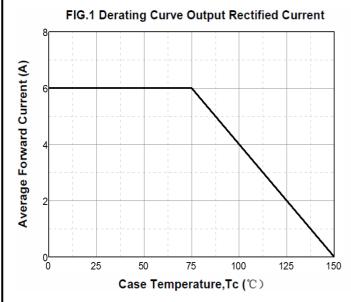
02-Jan-2020 Rev. B Page 1 of 2

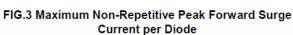


HBS62~HBS610

Voltage 200V~1000V 6.0 Amp Surface Mount Bridge Rectifier

RATINGS AND CHARACTERISTIC CURVES





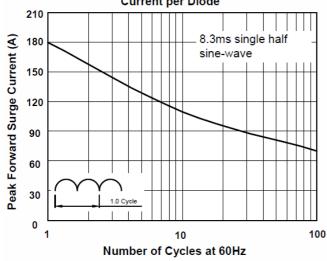


FIG.5 Typical Junction Capacitance per Diode

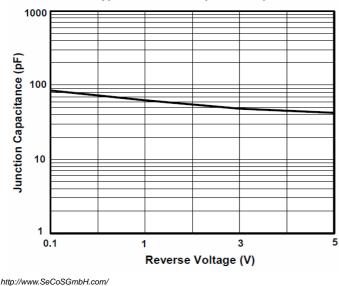


FIG.2 Typical Forward Characteristics per Diode

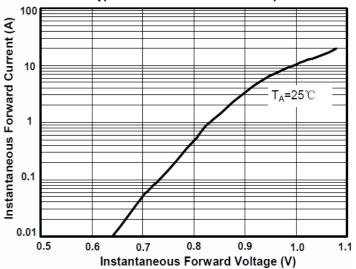
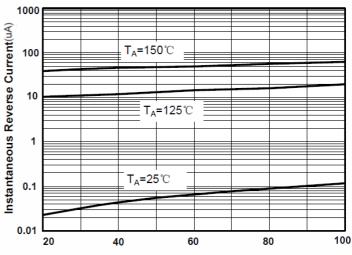


FIG.4 Typical Reverse Characteristics per Diode



Percent of Rated Peak Reverse Voltage (%)

Any changes of specification will not be informed individually.