

SB220S~SB2100S



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

| PARAMETER | SYMBOL | SB220S | SB230S | SB240S | SB250S | SB260S | SB280S | SB2100S | UNITS |
|---|--------------------|-------------------------|--------|--------|--------|--------|--------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum RMS Voltage | V _{rms} | 14 | 21 | 28 | 35 | 42 | 56 | 70 | V |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length | I _{F(AV)} | 2 | | | | | A | | |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated | I _{fsm} | 50 | | | | | A | | |
| Maximum Forward Voltage at 2A | V _F | 0.5 0.7 0.85 | | .85 | V | | | | |
| Maximum DC Reverse Current at Rated DC Blocking $T_j=25^{\circ}C$ Voltage $T_j=100^{\circ}C$ | I _R | 0.5 20 | | | | | | mA | |
| (Notes 2) Maximuml Thermal Resistance (Notes 1) (Notes 1) | | 80 48 20 | | | | | | °C / W | |
| Operating Junction Temperature Range | TJ | -50 to +125 -50 to +150 | | | o +150 | °C | | | |
| Storage Temperature Range | T _{stg} | -50 to +150 | | | | °C | | | |

NOTES:1. The testing condition of the thermal resistance (junction to case and junction to lead) is based on 9.5 mm lead length between two 10cm x 10cm

2. Mounted on a single-sided copper, mini pad.





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Fig.7 Typical Forward Characteristics









For example :

RB500V-40_R2_00001

Part No.

- Serial number

Version code means HF

- Packing size code means 13"
- Packing type means T/R

| Packing Code XX | | | | Version Code XXXXX | | | | |
|---|----------------------|-------------------------------------|----------------------|--------------------|----------------------|---------------------------------------|--|--|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code | | |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number | | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | | |
| Tube Packing (T/P) | т | 26mm | X | | | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | | | |





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