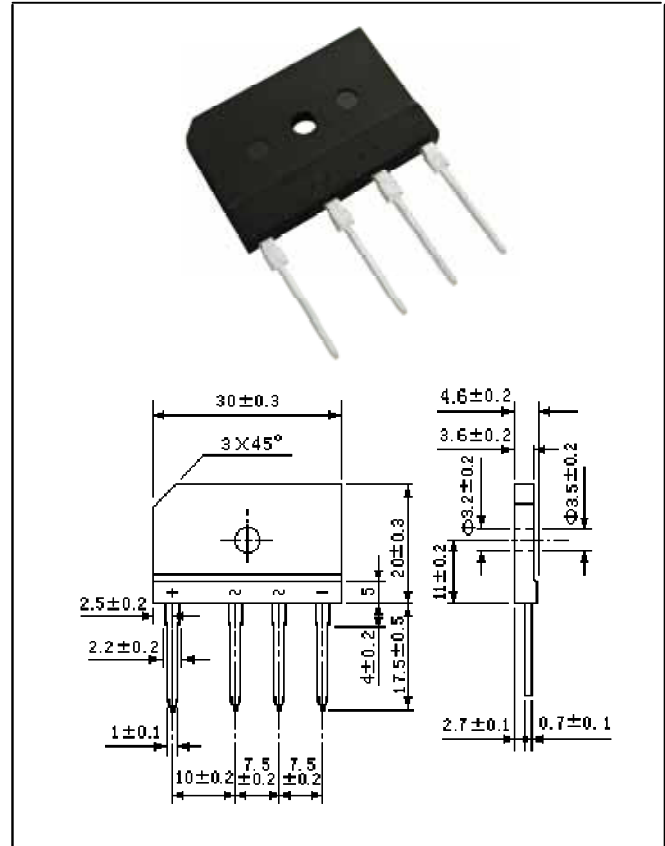


D25SB10(RBV2502S) Thru D25SB100(RBV2507S)

FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized Component index, file number E231047
- Single-in-line package
- High current capacity with small package
- Superior thermal conductivity
- High temperature soldering guaranteed:
260°C/10 seconds
- High I_{FSM}



Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter Symbol | Symbol | D25SB10 | D25SB20 | D25SB40 | D25SB60 | D25SB80 | D25SB100 | Unit |
|--|-----------|----------|----------|----------|----------|----------|----------|------------|
| | | RBV2502S | RBV2503S | RBV2504S | RBV2505S | RBV2506S | RBV2507S | |
| Maximum repetitive voltage | V_{RM} | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum DC reverse current at rated DC blocking voltage | I_R | 5 | | | | | | μA |
| Average rectified forward current 60Hz Sine wave Resistance load with heat sink $T_c=100^\circ C$ | I_o | 25 | | | | | | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 350 | | | | | | A |
| Dielectric strength Terminals to case, AC 1 minute Current 1mA | V_{dia} | 2.5 | | | | | | KV |
| Max instantaneous forward voltage at 12.5A | V_F | 1.1 | | | | | | V |
| Operating junction temperature | T_J | 150 | | | | | | $^\circ C$ |
| Storage temperature | T_{stg} | -40~150 | | | | | | $^\circ C$ |

D25SB10(RBV2502S) Thru D25SB100(RBV2507S)

Fig.1 Derating Curve

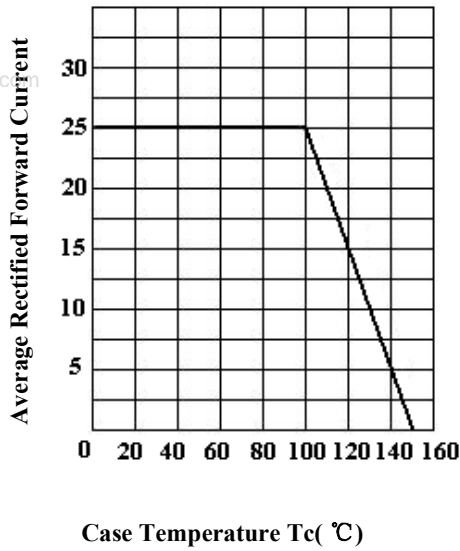


Fig.2 Peak Surge Forward capability

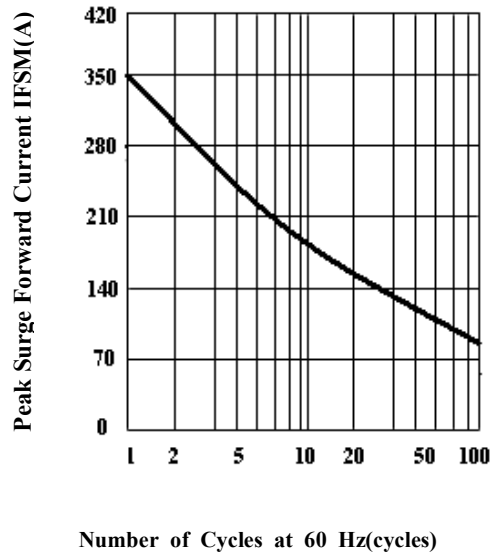


Fig.3 Typical Reverse Characteristics

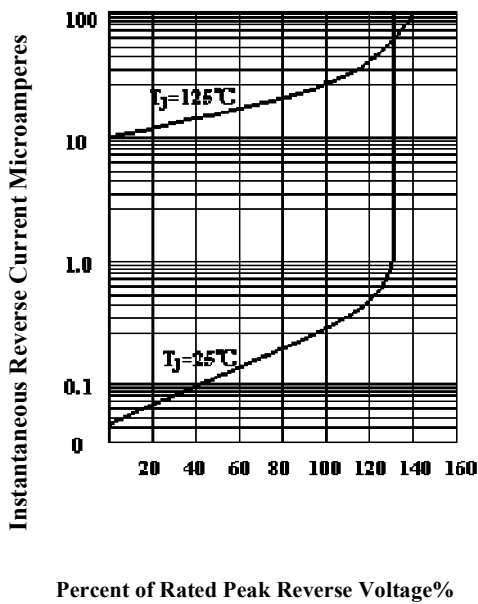


Fig.4 Forward Voltage

