

DF005S THRU DF10S

MINIATURE GLASS PASSIVATED SINGLE-PHASE

Surface Mount Bridge Rectifiers

Reverse Voltage – 50 to 1000 Volts

Forward Current – 1.0 Ampere

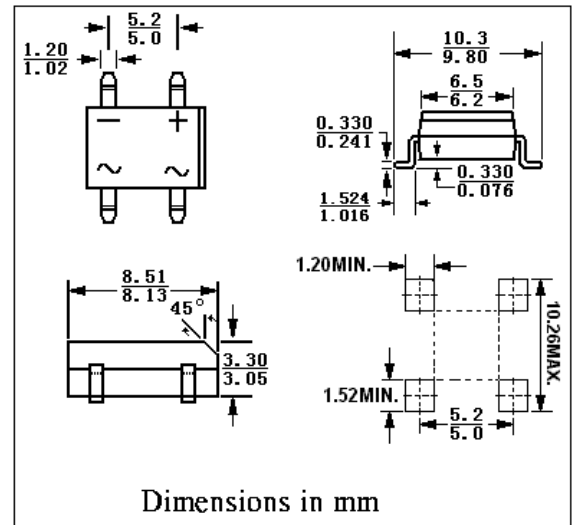
DB-S

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- Glass passivated chip junctions.
- High surge overload rating of 50 Amperes peak.
- Ideal for printed circuit boards.
- High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs. (2.3Kg) tension.

Mechanical Data

- Case: Molded plastic case over passivated junctions.
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026.
- Polarity: Polarity symbols marked on body.
- Mounting Position: Any.

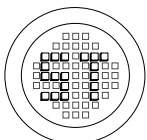


Absolute Maximum Ratings and Characteristics @ 25 °C unless otherwise specified.

| | Symbols | DF 005S | DF 01S | DF 02S | DF 04S | DF 06S | DF 08S | DF 10S | Units |
|--|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|------------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward output rectified current at $T_A = 40^\circ\text{C}^{(2)}$ | $I_{F(AV)}$ | 1 | | | | | | | A |
| Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) $T_J=150^\circ\text{C}$ | I_{FSM} | 50 | | | | | | | A |
| Maximum instantaneous forward voltage drop per leg at 1A | V_F | 1.1 | | | | | | | V |
| Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage per leg $T_A = 125^\circ\text{C}$ | I_R | 5 | | | | | | | μA |
| Rating for fusing ($t < 8.3\text{ms}$) | I^2t | 10 | | | | | | | A^2sec |
| Typical junction capacitance per leg $^{(1)}$ | C_J | 25 | | | | | | | pF |
| Typical thermal resistance per leg $^{(2)}$ | $R_{\theta JA}$ $R_{\theta JL}$ | 40 15 | | | | | | | $^\circ\text{C/W}$ |
| Operating junction and storage temperature range | T_J, T_S | -55 to +150 | | | | | | | $^\circ\text{C}$ |

Notes: (1) Measured at 1MHz and applied reverse voltage of 4 volts

(2) Units mounted on P.C.B with 0.51x 0.51" (13 X13mm) copper pads..

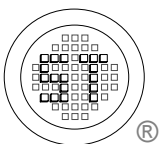
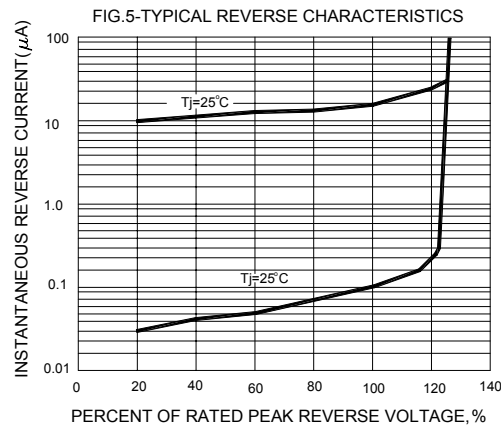
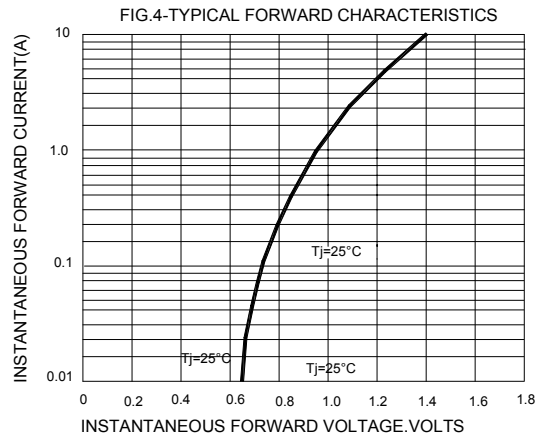
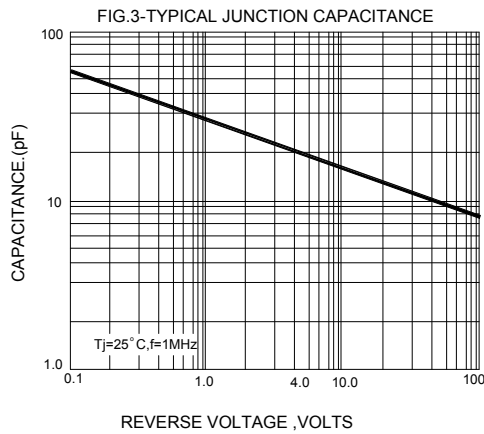
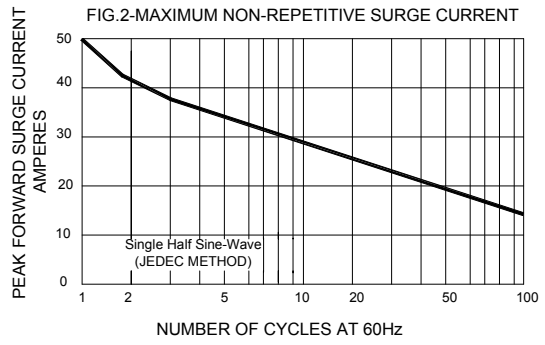
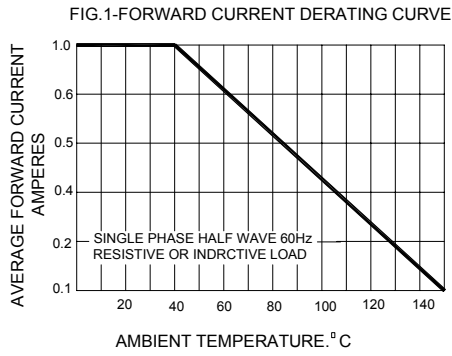


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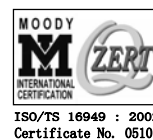
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SEMTECH ELECTRONICS LTD.
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ISO/TS 16949 : 2002
 Certificate No. 05103

ISO 14001
 Certificate No. 7116

ISO 9001 : 2000
 Certificate No. 05103

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