

Single Phase Glass Passivated Silicon Bridge Rectifier

$V_{RRM} = 50\text{ V} - 400\text{ V}$

$I_O = 1.5\text{ A}$

Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Small size, simple installation
- Types from 50 V up to 400 V V_{RRM}
- Not ESD Sensitive

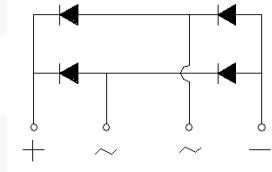
Mechanical Data

Case: Molded plastic

Terminals: Plated terminals, solderable per MIL-STD-202, Method 208

Polarity: Polarity symbols marked on the body

Mounting position: Any



DB Package



Maximum ratings at $T_c = 25\text{ }^\circ\text{C}$, unless otherwise specified

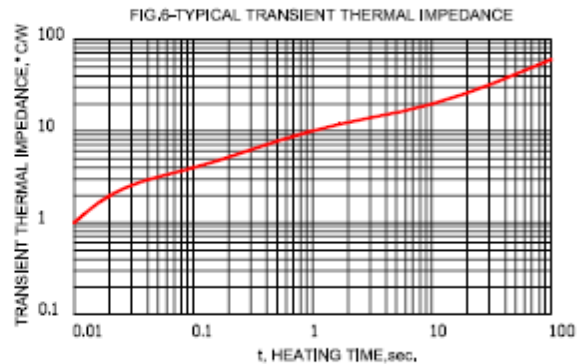
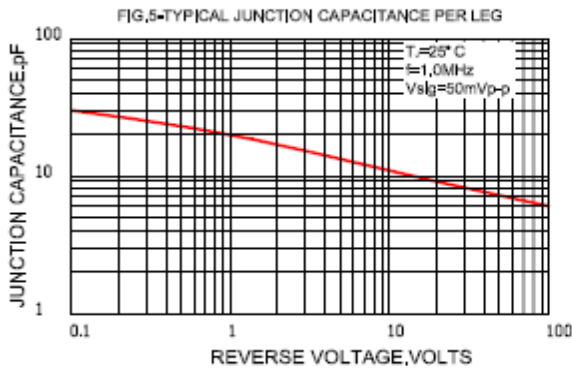
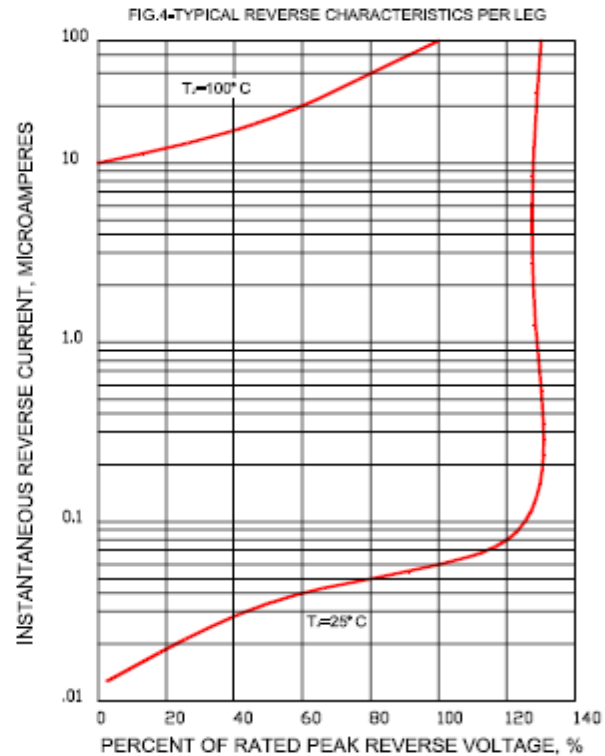
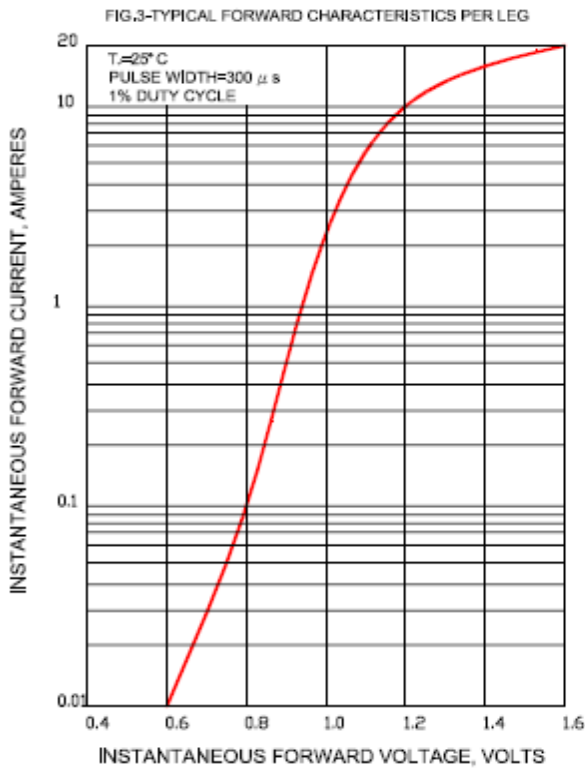
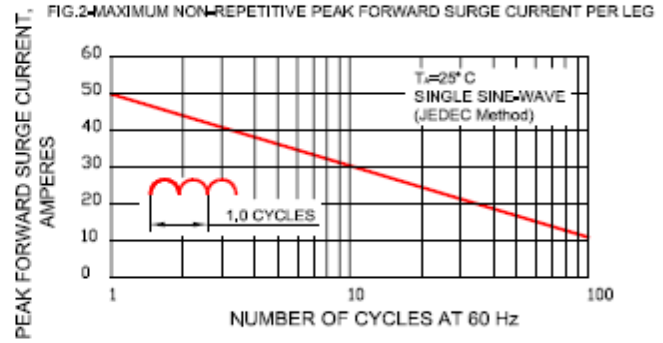
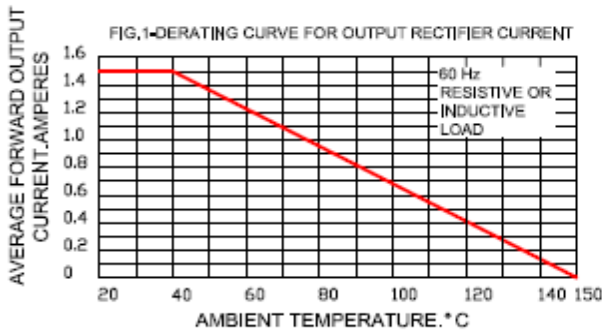
| Parameter | Symbol | Conditions | DB151G | DB152G | DB153G | DB154G | Unit |
|---------------------------------|-----------|------------|------------|------------|------------|------------|------------------|
| Repetitive peak reverse voltage | V_{RRM} | | 50 | 100 | 200 | 400 | V |
| RMS reverse voltage | V_{RMS} | | 35 | 70 | 140 | 280 | V |
| DC blocking voltage | V_{DC} | | 50 | 100 | 200 | 400 | V |
| Operating temperature | T_j | | -55 to 150 | -55 to 150 | -55 to 150 | -55 to 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | | -55 to 150 | -55 to 150 | -55 to 150 | -55 to 150 | $^\circ\text{C}$ |

Electrical characteristics at $T_c = 25\text{ }^\circ\text{C}$, unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load

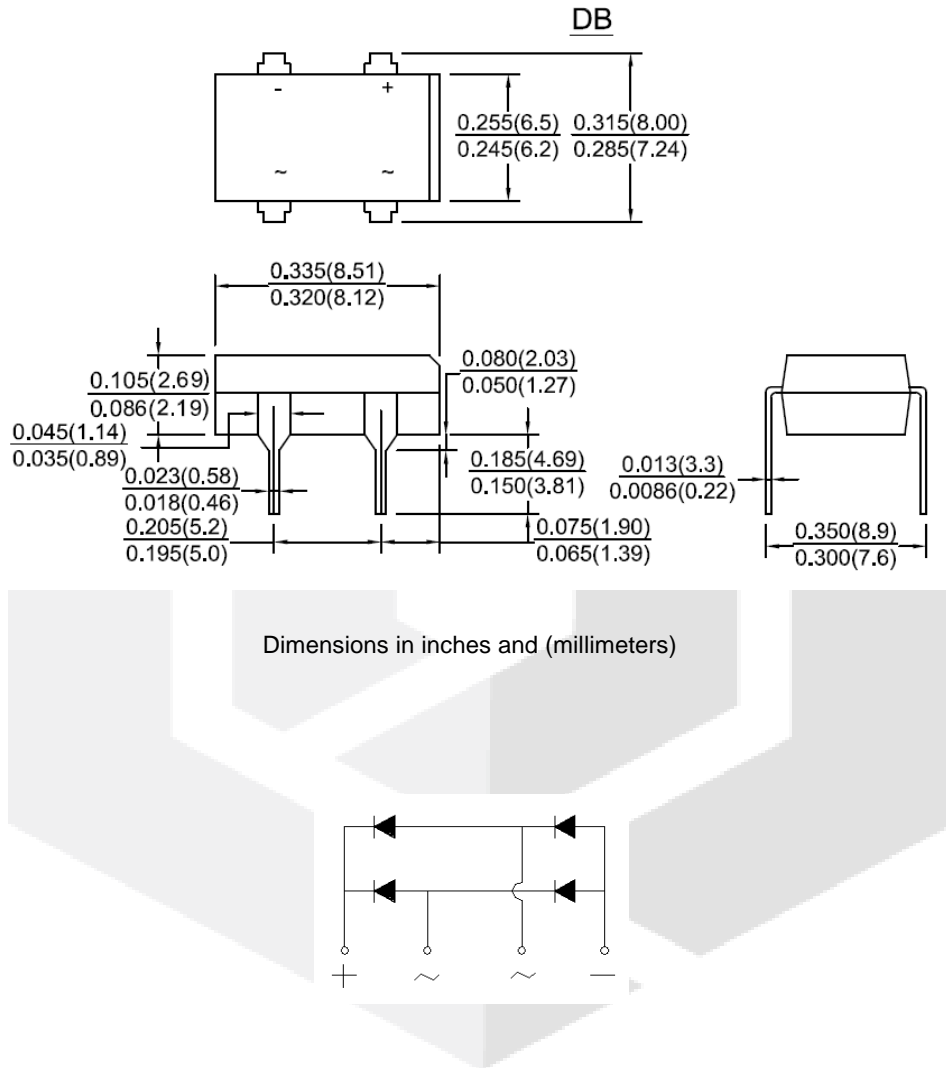
For capacitive load derate current by 20%

| Parameter | Symbol | Conditions | DB151G | DB152G | DB153G | DB154G | Unit |
|---|-----------------|---|----------|----------|----------|----------|------------------------|
| Maximum average forward rectified current | I_O | $T_a = 40\text{ }^\circ\text{C}$ | 1.5 | 1.5 | 1.5 | 1.5 | A |
| Peak forward surge current | I_{FSM} | $t_p = 8.3\text{ ms}$, half sine | 50 | 50 | 50 | 50 | A |
| Maximum instantaneous forward voltage drop | V_F | $I_F = 1.5\text{ A}$ | 1.1 | 1.1 | 1.1 | 1.1 | V |
| Maximum DC reverse current at rated DC blocking voltage | I_R | $T_a = 25\text{ }^\circ\text{C}$ $T_a = 125\text{ }^\circ\text{C}$ | 5 500 | 5 500 | 5 500 | 5 500 | μA |
| Rating for fusing | I^2t | $t < 8.3\text{ ms}$ | 10 | 10 | 10 | 10 | A^2sec |
| Typical junction capacitance | C_j | | 14 | 14 | 14 | 14 | pF |
| Typical thermal resistance | $R_{\theta JA}$ | | 36 | 36 | 36 | 36 | $^\circ\text{C/W}$ |



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



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