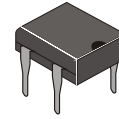


**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 1.5 A**



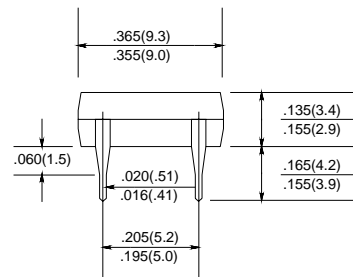
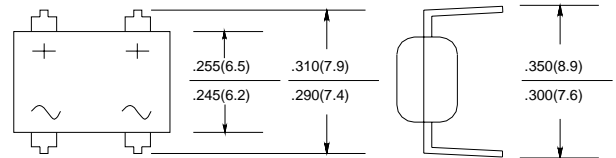
### Features

- Rating to 1000VPRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic
- The plastic material has UL flammability classification 94V-0

### Mechanical Data

- Polarity: As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any

### DB - 1



### Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic   | Symbol      | DB151           | DB152 | DB153 | DB154 | DB155 | DB156 | DB157 | Unit             |
|--|-------------|-----------------|-------|-------|-------|-------|-------|-------|------------------|
| Maximum recurrent 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 current @ $T_A = 25^\circ\text{C}$  | $I_{F(AV)}$ | 1.5             |       |       |       |       |       |       | A                |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load                              | $I_{FSM}$   | 40.0            |       |       |       |       |       |       | A                |
| Maximum instantaneous forward voltage at 1.5 A   | $V_F$       | 1.1             |       |       |       |       |       |       | V                |
| Maximum reverse current @ $T_A = 25^\circ\text{C}$<br>at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$ | $I_R$       | 5.0             |       |       |       |       |       |       | $\mu\text{A}$    |
|  |             | 0.5             |       |       |       |       |       |       | m A              |
| Operating junction temperature range   | $T_J$       | - 55 ---- + 150 |       |       |       |       |       |       | $^\circ\text{C}$ |
| Storage temperature range  | $T_{STG}$   | - 55 ---- + 150 |       |       |       |       |       |       | $^\circ\text{C}$ |



FIG.1-FORWARD CURRENT DERATING CURVE

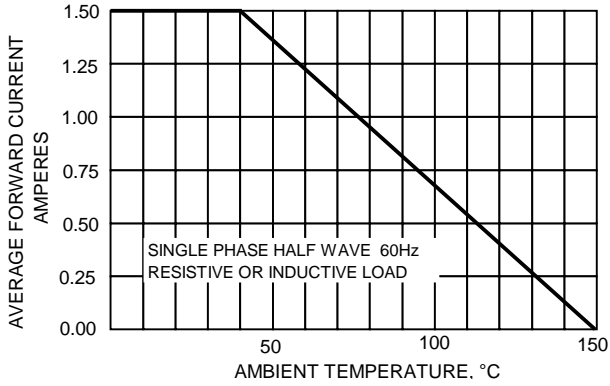


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

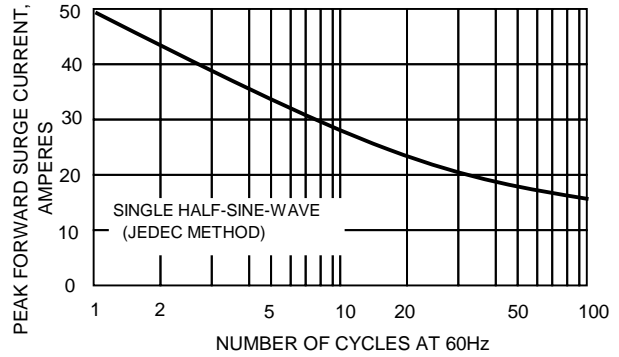


FIG.3-TYPICAL JUNCTION CAPACITANCE

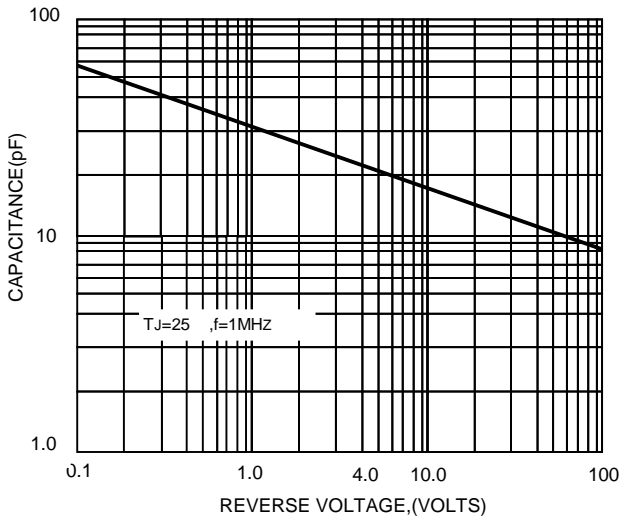


FIG.4-TYPICAL FORWARD CHARACTERISTICS

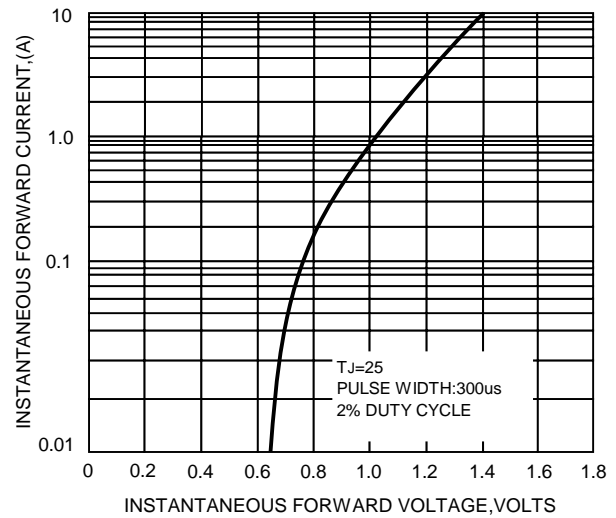


FIG.5-TYPICAL REVERSE CHARACTERISTICS

