



# DF005G THRU DF10G    DF005S THRU DF10S

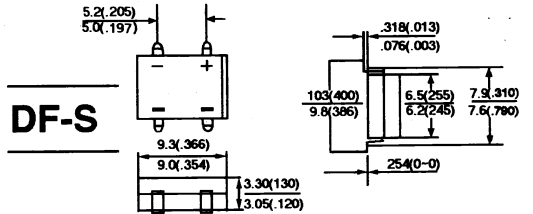
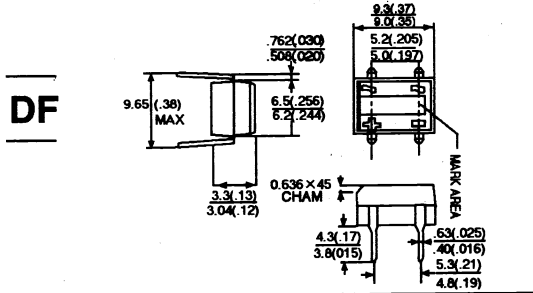
## SINGLE PHASE 1.0 AMP GLASS PASSIVATED BRIDGE RECTIFIERS



### FEATURES

- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High surge current capability
- \* Small size, simple installation
- \* Leads solderable per MIL-STD-202, method 208

**VOLTAGE RANGE**  
50 to 1000 Volts  
**CURRENT**  
1.0 Ampere



Dimensions in millimeters and (inches)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%

| TYPE NUMBER   | SYMBOLS     | DF005G        | DF01G | DF02G | DF04G | DF06G | DF08G | DF10G | UNITS              |
|---|-------------|---------------|-------|-------|-------|-------|-------|-------|--------------------|
|   |             | DF005S        | DF01S | DF02S | DF04S | DF06S | DF08S | DF10S |                    |
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$   | 50            | 100   | 200   | 400   | 600   | 800   | 1000  | V                  |
| Maximum RMS Bridge Input Voltage  | $V_{RMS}$   | 35            | 70    | 140   | 280   | 420   | 560   | 700   | V                  |
| Maximum D. C Blocking Voltage   | $V_{DC}$    | 50            | 100   | 200   | 400   | 600   | 800   | 1000  | V                  |
| Maximum Average Forward Rectified Current @ $T_A = 40^\circ C$  | $I_{F(AV)}$ | 1.0           |       |       |       |       |       |       | A                  |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)                | $I_{FSM}$   | 30            |       |       |       |       |       |       | A                  |
| Maximum Forward Voltage Drop per element @ 1.0A   | $V_F$       | 1.10          |       |       |       |       |       |       | V                  |
| Maximum Reverse Current at Rated @ $T_A = 25^\circ C$<br>D. C. Blocking Voltage per element @ $T_A = 125^\circ C$ | $I_R$       | 10<br>500     |       |       |       |       |       |       | $\mu A$<br>$\mu A$ |
| Operating Temperature Range   | $T_J$       | - 55 to + 125 |       |       |       |       |       |       | $^\circ C$         |
| Storage Temperature Range   | $T_{STG}$   | - 55 to + 150 |       |       |       |       |       |       | $^\circ C$         |

# RATINGS AND CHARACTERISTIC CURVES (DF005G THRU DF10G) (DF005S THRU DF10S)

FIG. 1 - DERATING CURVE FOR OUTPUT CURRENT

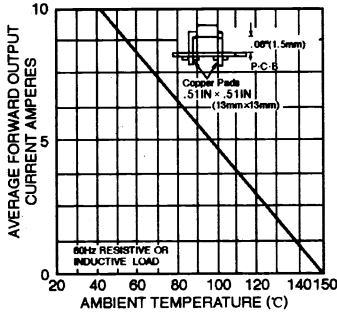


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

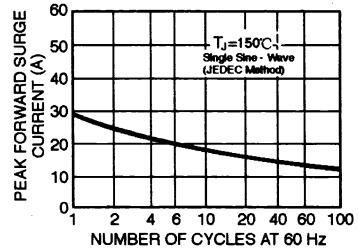


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

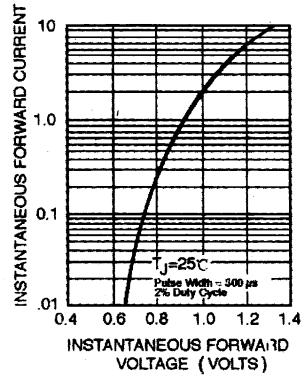


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

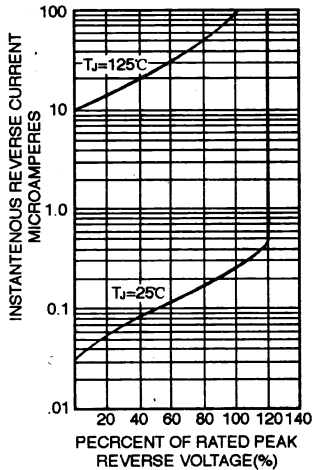


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

