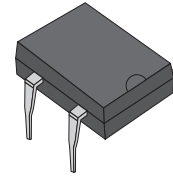


## DF2005-G Thru. DF210-G

Reverse Voltage: 50 to 1000V

Forward Current: 2.0A

RoHS Device

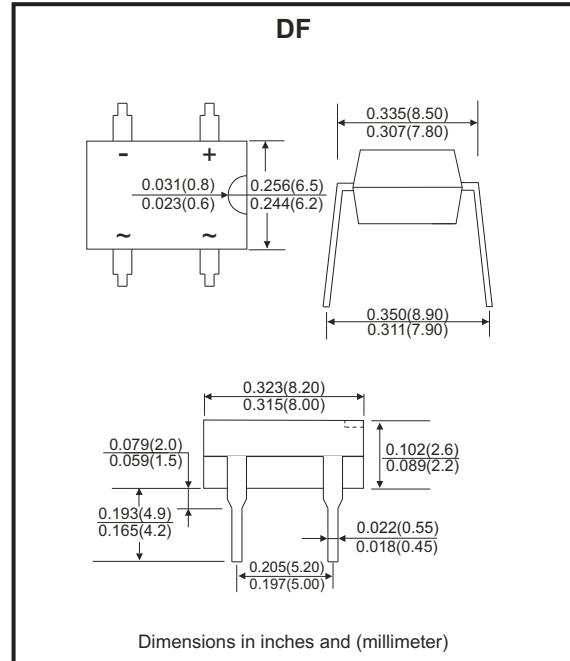


### Features

- Rating to 1000V PRV.
- Ideal for printed circuit board.
- Low forward voltage drop.
- High current capability.
- The plastic material has UL flammability classification 94V-0
- UL recognized file # E349301

### Mechanical Data

- Polarity: As marked on Body.
- Weight: 0.38 grams.
- Mounting position: Any.



### Maximum ratings and electrical characteristics

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

| Parameter  | Symbol          | DF 2005-G  | DF 201-G | DF 202-G | DF 204-G | DF 206-G | DF 208-G | DF 210-G | 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 Rectified Current @ $T_A=40^\circ C$                                       | $I_{(AV)}$      | 2.0        |          |          |          |          |          |          | A            |
| Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed on Rated Load               | $I_{FSM}$       | 60         |          |          |          |          |          |          | A            |
| $I^2 t$ Rating for Fusing ( $t < 8.3ms$ )  | $I^2 t$         | 14.94      |          |          |          |          |          |          | $A^2 s$      |
| Maximum Forward Voltage at 2.0A DC   | $V_F$           | 1.1        |          |          |          |          |          |          | V            |
| Maximum DC Reverse Current @ $T_J = 25^\circ C$ at Rated DC Blocking Voltage @ $T_J = 125^\circ C$ | $I_R$           | 10<br>500  |          |          |          |          |          |          | $\mu A$      |
| Typical Junction Capacitance Per Element (Note 1)  | $C_J$           | 25         |          |          |          |          |          |          | pF           |
| Typical Thermal Resistance (Note 2)  | $R_{\theta JA}$ | 40         |          |          |          |          |          |          | $^\circ C/W$ |
| Operating Temperature Range  | $T_J$           | -55 ~ +150 |          |          |          |          |          |          | $^\circ C$   |
| Storage Temperature Range  | $T_{STG}$       | -55 ~ +150 |          |          |          |          |          |          | $^\circ C$   |

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC
2. Unit mounted on P.C.B with 0.50"×0.50" (13×13mm) copper pads.

Company reserves the right to improve product design , functions and reliability without notice.

REV: F

## Rating and Characteristics Curves (DF2005-G Thru. DF210-G)

Fig.1 - Derating Curve For Output Rectified Current

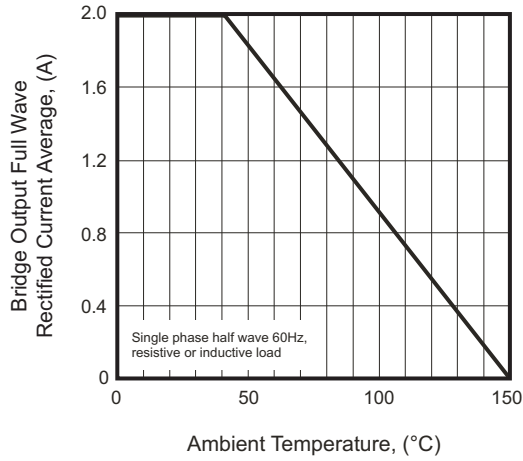


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

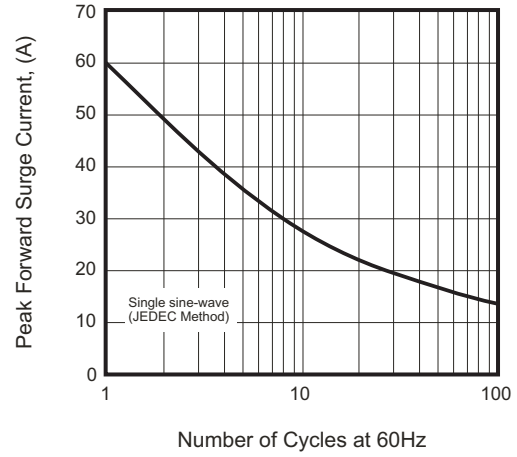


Fig.3 - Typical Junction Capacitance

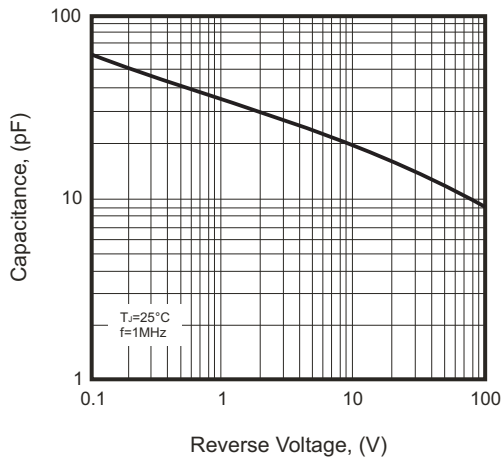


Fig.4 - Typical Forward Characteristics

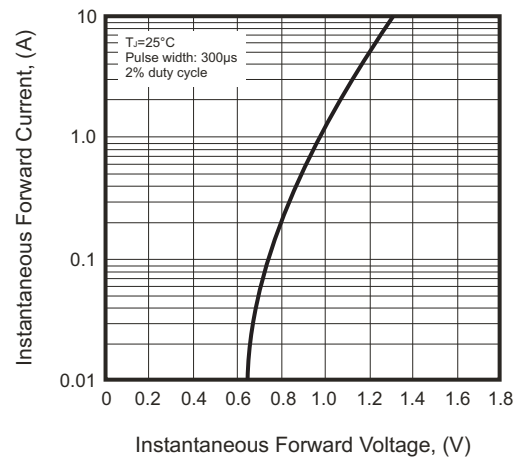
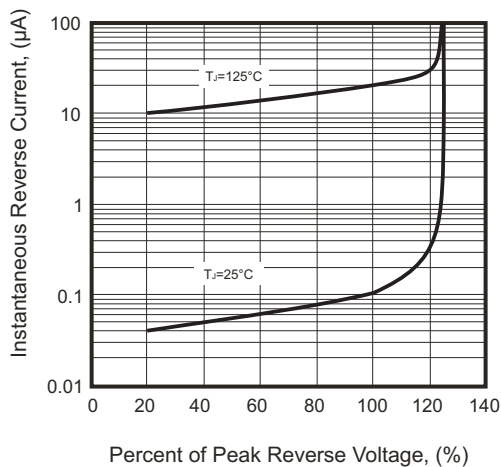
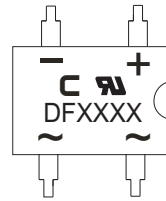


Fig.5 - Typical Reverse Characteristics



## Marking Code

| Part Number | Marking code |
|-------------|--------------|
| DF2005-G    | DF2005       |
| DF201-G     | DF201        |
| DF202-G     | DF202        |
| DF204-G     | DF204        |
| DF206-G     | DF206        |
| DF208-G     | DF208        |
| DF210-G     | DF210        |



XXXX / XXX = Product type marking code  
 C = Comchip Logo

## Standard Packaging

| Case Type | TUBE PACK       |                |
|-----------|-----------------|----------------|
|           | TUBE<br>( pcs ) | BOX<br>( pcs ) |
| DF        | 50              | 2,500          |

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