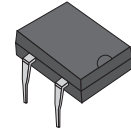


## DF005-G Thru. DF10-G

Reverse Voltage: 50 to 1000V  
Forward Current: 1.0A  
RoHS Device

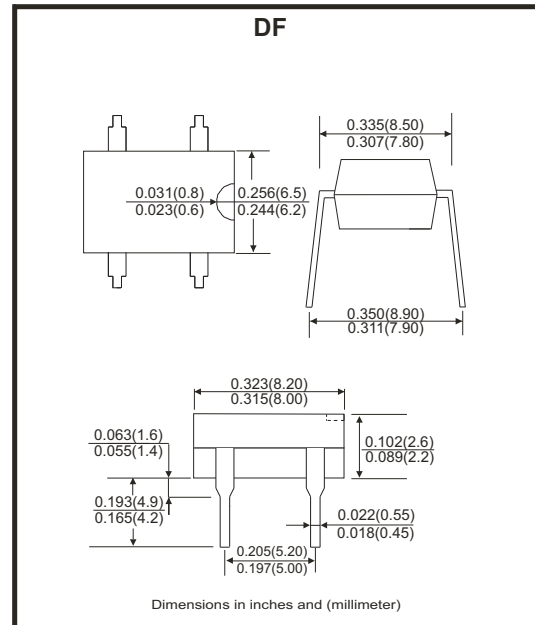


### Features

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

### Mechanical Data

- Polarit: 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	DF005-G	DF01-G	DF02-G	DF04-G	DF06-G	DF08-G	DF10-G	Unit
Maximum Reverse Peak Repetitive 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 @ $T_A=40^\circ\text{C}$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	$I_{FSM}$	30							A
$I^2 t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2 t$	10.4							$\text{A}^2\text{s}$
Maximum Forward Voltage at 1.0A DC	$V_F$	1.1							V
Maximum DC Reverse Current @ $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$	$I_R$	10 500							$\mu\text{A}$
Typical Junction Capacitance Per Element (Note 1)	$C_J$	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 ~ +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 ~ +150							$^\circ\text{C}$

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.

## Rating and Characteristics Curves (DF005-G Thru. DF10-G)

FIG.1 - Derating Curve For Output Rectified Current

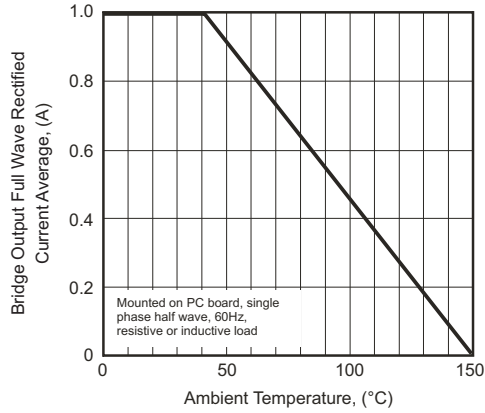


FIG. 2 - Maximum Non-Repetitive Peak Forward Surge Current

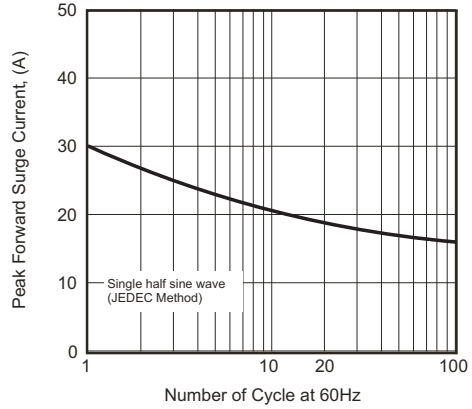


Fig.3 - Typical Junction Capacitance

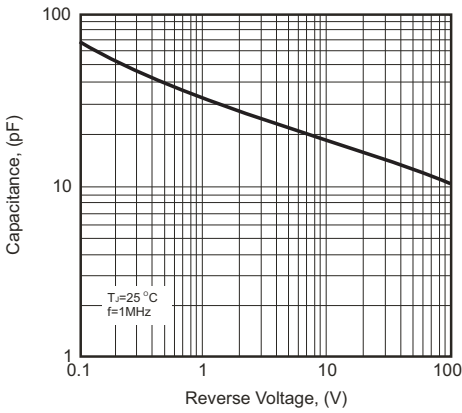


Fig.4 - Typical Forward Characteristics

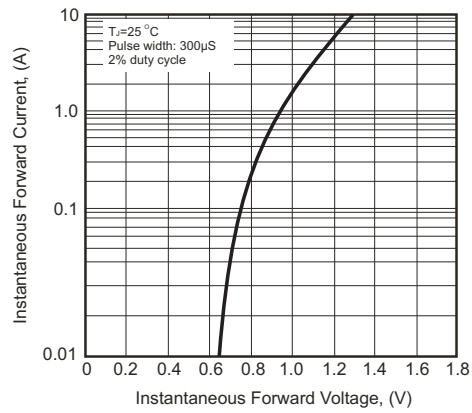
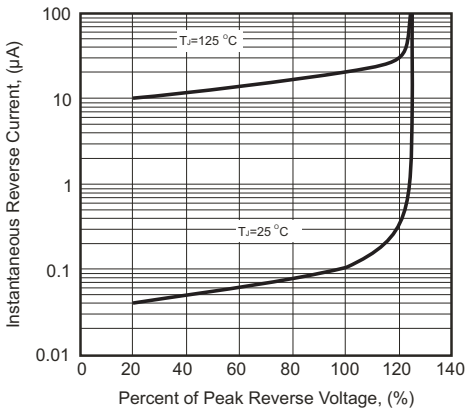
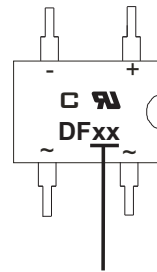


Fig.5 - Typical Reverse Characteristics



## Marking Code

Part Number	Marking code	Packaging
DF005-G	DF005	Tube
DF01-G	DF01	Tube
DF02-G	DF02	Tube
DF04-G	DF04	Tube
DF06-G	DF06	Tube
DF08-G	DF08	Tube
DF10-G	DF10	Tube



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

## Standard Packaging

Case Type	TUBE PACK	
	TUBE ( pcs )	BOX ( pcs )
DF	50	2,500