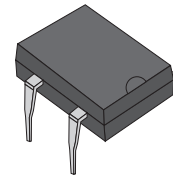


## DF005-G Thru. DF10-G

Reverse Voltage: 50 to 1000V

Forward Current: 1.0A

RoHS Device

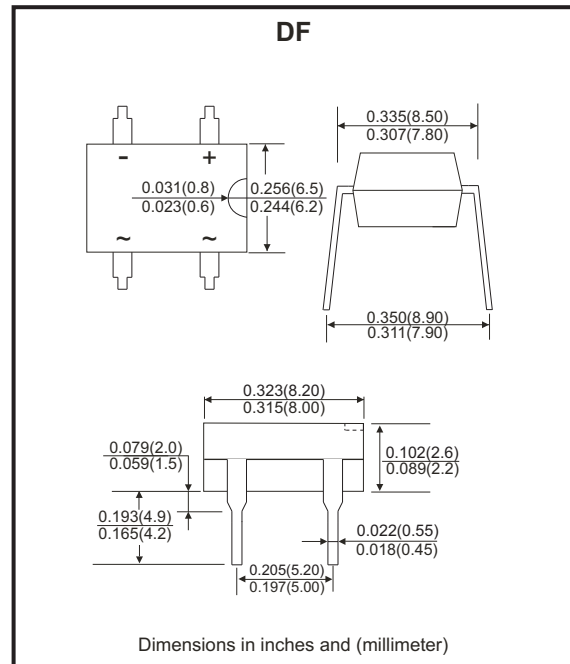


### Features

- Rating to 1000V PRV.
- Ideal for printed circuit board.
- Low forward voltage drop.
- High current capability.
- 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	DF005-G	DF01-G	DF02-G	DF04-G	DF06-G	DF08-G	DF10-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 @ $T_A=40^\circ C$	$I_{(AV)}$	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 ( $t < 8.3ms$ )	$I^2 t$	3.735							A <sup>2</sup> s
Maximum Forward Voltage at 1.0A DC	$V_F$	1.1							V
Maximum DC Reverse Current @ $T_J = 25^\circ C$ at Rated DC Blocking Voltage @ $T_J = 125^\circ C$	$I_r$	10 500							$\mu A$
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. Thermal resistance from junction to ambient 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: D

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

Fig.1 - Forward Current Derating Curve

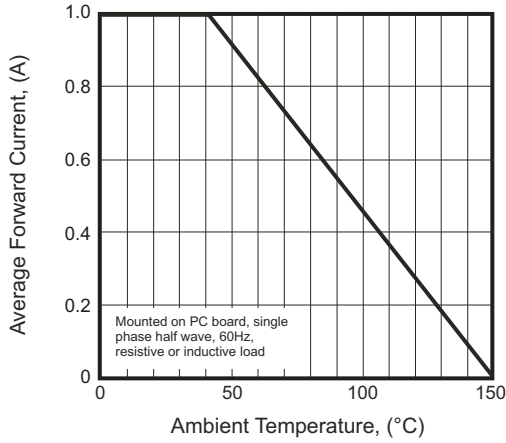


Fig.2 - Maximum Non-Repetitive Surge Current

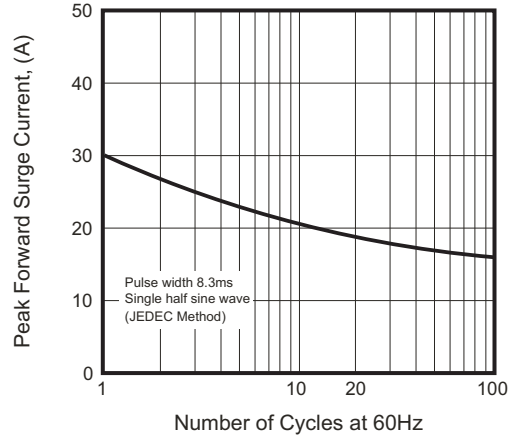


Fig.3 - Typical Junction Capacitance

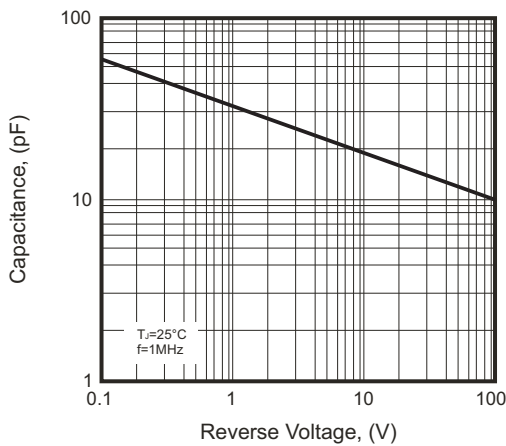


Fig.4 - Typical Forward Characteristics

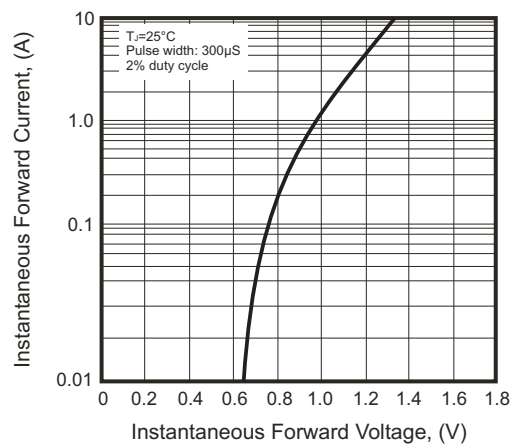
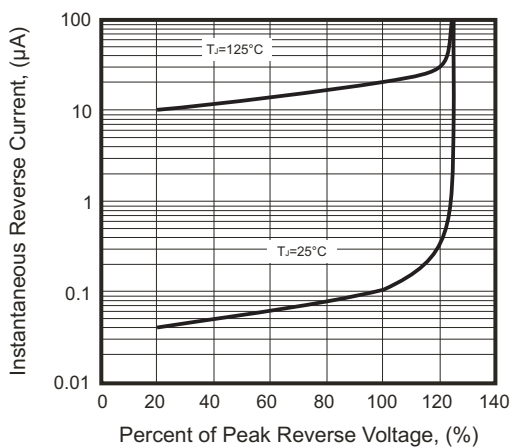


Fig.5 - Typical Reverse Characteristics



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