

# Glass Passivated Bridge Rectifier

multicomp **PRO**



## 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:

Polarity	: As marked on body
Weight	: 0.02 ounces, 0.38 grams
Mounting Position	: Any
Reverse Voltage	: 400 Volts
Forward Current	: 1 Ampere

## 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%.

Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	$V_{RRM}$	400	V
Max. RMS Voltage	$V_{RMS}$	280	
Max. DC Blocking Voltage	$V_{DC}$	400	
Max. Average Forward Rectified Current at $T_A = 40^\circ\text{C}$	$I_{(AV)}$	1	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	$I_{FSM}$	30	
Max. Instantaneous Forward Voltage at 1A DC	$V_F$	1.1	V
Max. DC Reverse Current at Rated DC Blocking Voltage at $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$I_R$	10 500	$\mu\text{A}$
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	3.735	$\text{A}^2\text{s}$
Typical Junction Capacitance per Element (Note 1)	$C_J$	25	$\text{pF}$
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40	$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ\text{C}$

## Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC.
2. Thermal resistance from junction to ambient mounted on P.C.B , with 0.5"×0.5" (13mm×13mm) copper pads.
3. The typical data above is for reference only

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## Ratings and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

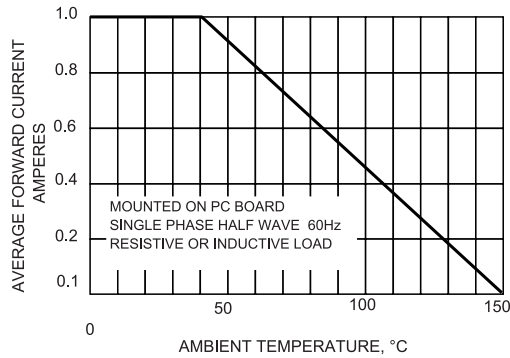


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

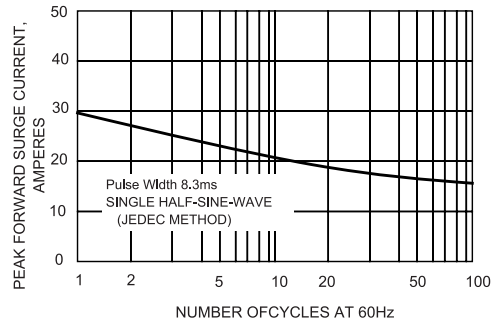


FIG.3-TYPICAL JUNCTION CAPACITANCE

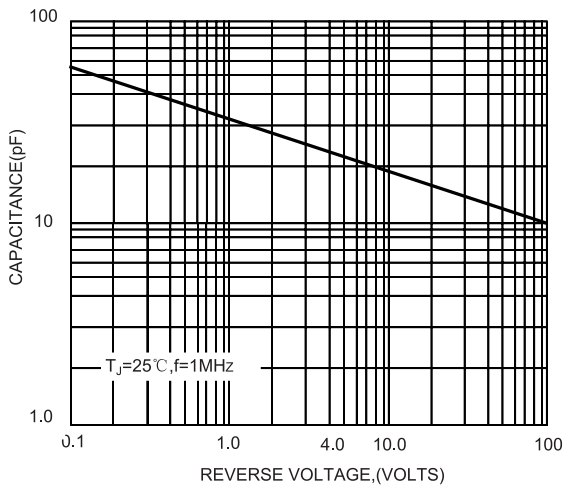


FIG.4-TYPICAL FORWARD CHARACTERISTICS

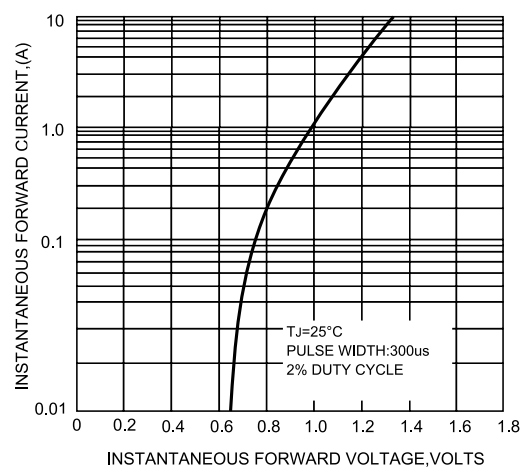
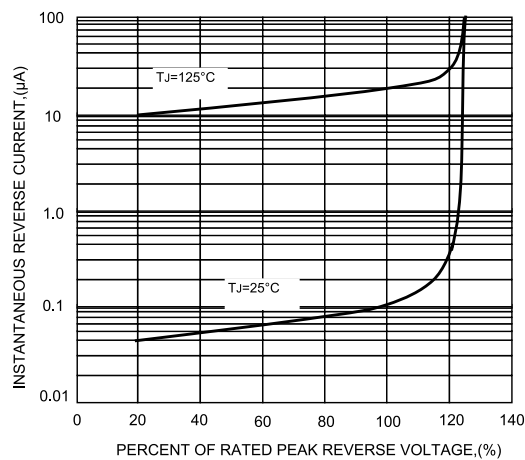


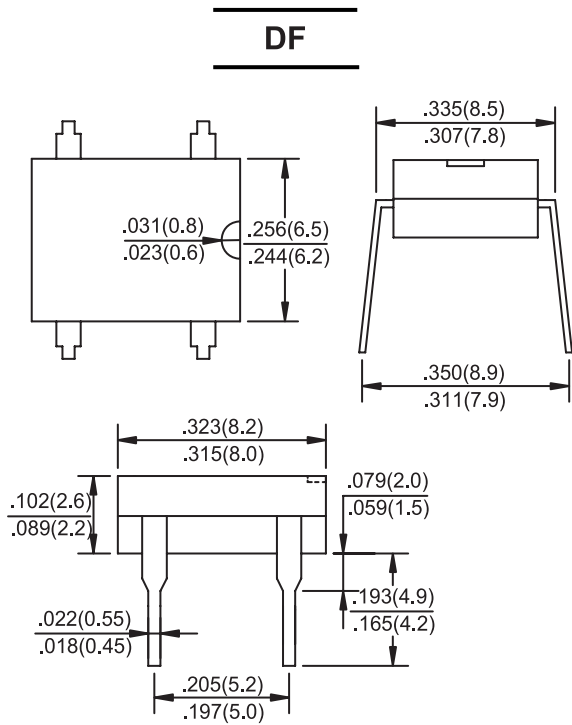
FIG.5-TYPICAL REVERSE CHARACTERISTICS



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## Dimensions:



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Bridge Rectifier, 1A 400V	DF04+

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