Glass Passivated
Bridge Rectifier

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°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 T_J = 25°C Rated DC Blocking Voltage at T_J = 125°C	I_R	10 500	μA
I^2t Rating for Fusing (t<8.3ms)	I^2t	3.735	A^2s
Typical Junction Capacitance per Element (Note 1)	C_J	25	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°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

Ratings and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

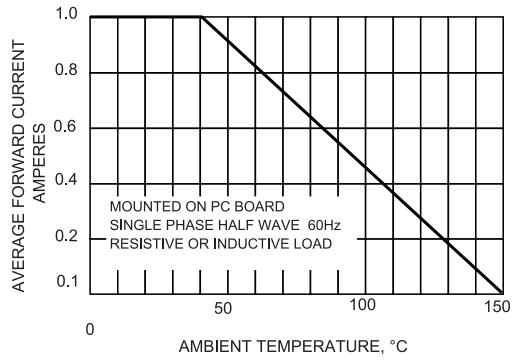


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

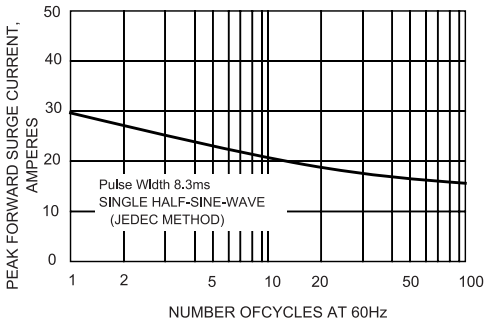


FIG.3-TYPICAL JUNCTION CAPACITANCE

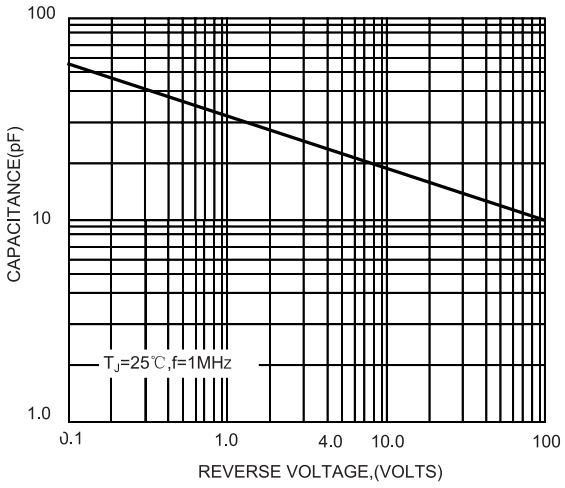


FIG.4-TYPICAL FORWARD CHARACTERISTICS

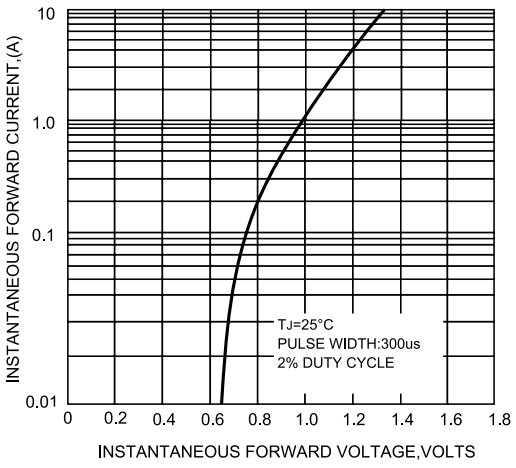
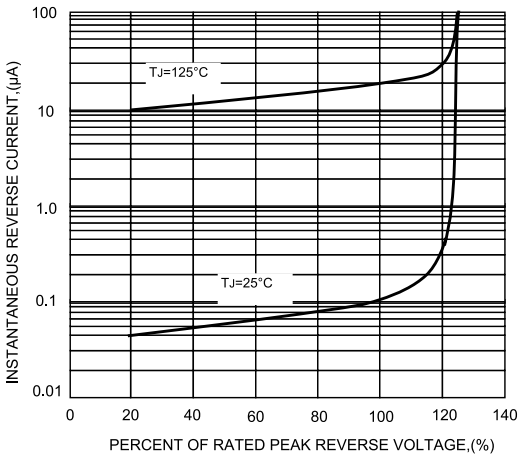


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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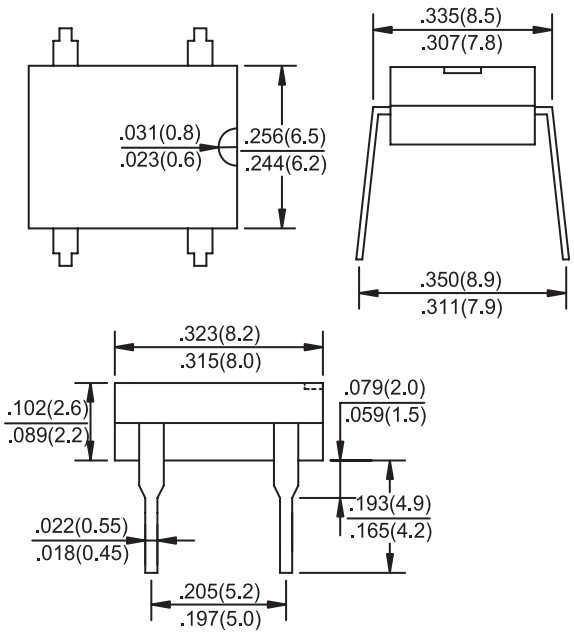
Dimensions:

DF



Dimensions : Inches (Millimetres)

Part Number Table

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