Glass Passivated Bridge Rectifier

Features:

- Rating to 1,000V PRVP
- Ideal for Printed Circuit Board
- Low Forward Voltage Drop, High Current Capability
- Reliable Low Cost Construction Utilizing Moulded Plastic Technique Results in Inexpensive Product

Maximum Ratings and Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.

Characteristic		DF04M	Units
Maximum repetitive peak reverse voltage	V_{RRM}	400	V
Maximum RMS voltage	V_{RWS}	280	V
Maximum DC blocking voltage	V_{DC}	400	V
Maximum average forward Output current at T_A=40°C	$I_{F(AV)}$	1	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	50	A
Maximum instantaneous forward voltage at 1A DC	V_F	1.1	V
Maximum DC reverse current T_J=25°C at rated DC blocking voltage T_J=125°C	I_R	10 500	μA
I_t Rating for fusing (t < 8.3ms)	I^2t	10.4	A^2S
Typical junction capacitance per element (Note1)	C_J	25	pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	40	°CW
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150	°C

Note:

(1) Measured at 1MHz and applied reverse voltage of 4V DC

(2) Thermal resistance from junction to ambient mounted on PCB with 0.5" × 0.5" (13 × 13mm) copper pads

FIG.1 - FORWARD CURRENT DERATING CURVE

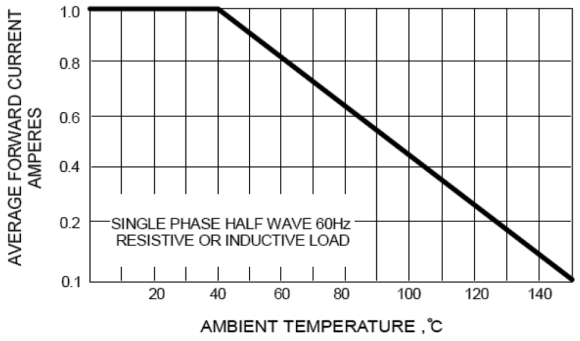


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

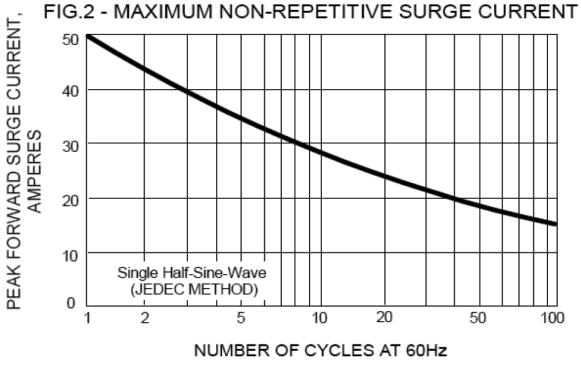


FIG.3 - TYPICAL JUNCTION CAPACITANCE

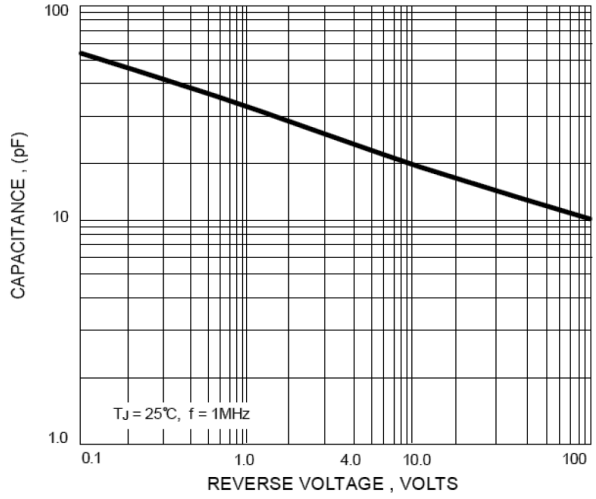


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

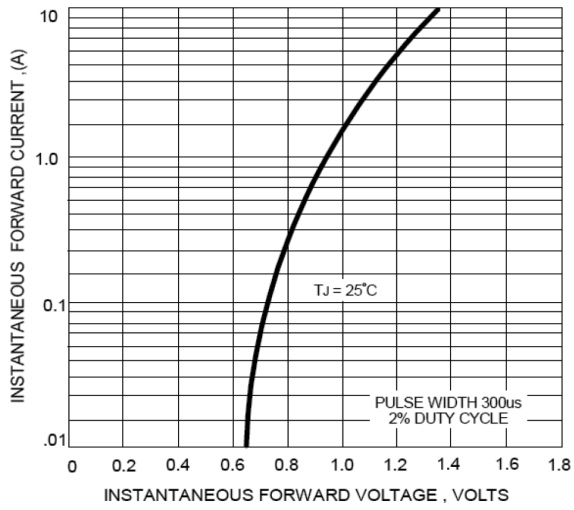
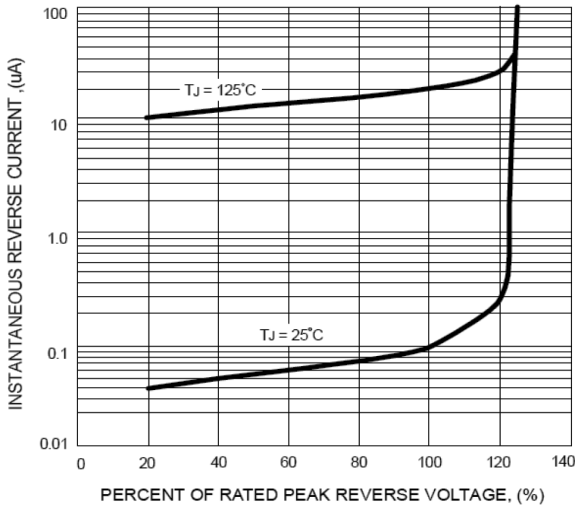
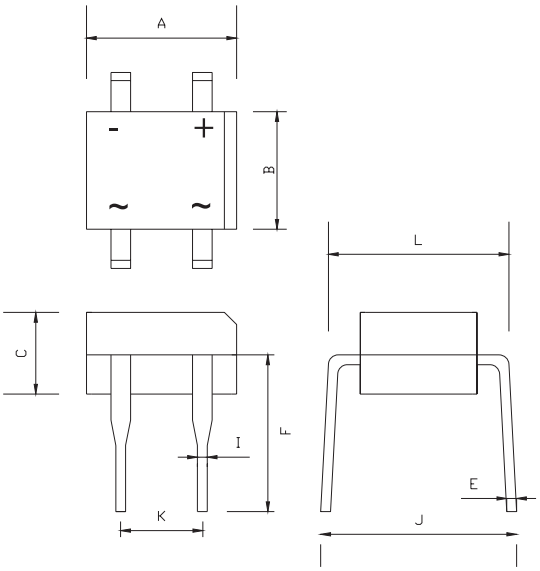


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions



DFS		
Dim.	**Min.**	**Max.**
A	8.2	8.6
B	6.1	6.5
C	2.35	2.65
E	0.25 Typ.	
F	5.4	6
I	0.35	0.65
J	8.4	9
K	5.3	5.9
L	7.65	8.15

Dimensions : Millimetres

Package Information

Device	Package	Shipping
DF04M	DFM	50 unit / pipe

Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifier	DF04M