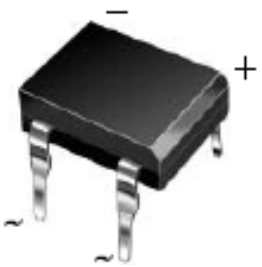
1.0A Glass Passivated Bridge Rectifier



DFM

Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit boards
- Applicable for automotive insertion
- High surge current capability
- This series is UL recognized under component index, File number E194718
- RoHS Compliant

Mechanical Data

Case:	DFM
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Leads solderable per MIL-STD-202, method 208
Polarity:	As marked on case
Mounting Position:	Any
Weight:	0.02 ounce, 0.4 gram

Maximum Ratings And Electrical Characteristics (T_{amb}=25˚C)

Symbol	Description	DF 005M	DF 01M	DF 02M	DF 04M	DF 06M	DF 08M	DF 10M	Unit	Conditions
V_{RRM}	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Max. RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Max. DC Blocking Voltage	50	100	200	400	600	800	1000	V	
$I_{F(AV)}$	Max. Average Forward Rectified Current	1.0							A	T_A=40° C
I_{FSM}	Peak Forward Surge Current	50							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
I^2t	Rating for Fusing (t<8.3ms)	10							A^2s	

Symbol	Description	DF 005M	DF 01M	DF 02M	DF 04M	DF 06M	DF 08M	DF 10M	Unit	Conditions
V_F	Max. Instantaneous Forward Voltage Drop per leg	1.1							V	I_F=1.0A
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							µA	T_A=25° C
		500								T_A=125° C
C_J	Typical Junction Capacitance per leg	25							pF	V_R=4V, f=1MHz
R_{thJA}	Typical Thermal Resistance per leg	40							°C / W	Note
R_{thJL}		15								
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150							° C	

Note: Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5x0.5” (13x13mm) copper pads.

Typical Characteristics Curves

Fig.1- Derating Curve Output Rectified Current

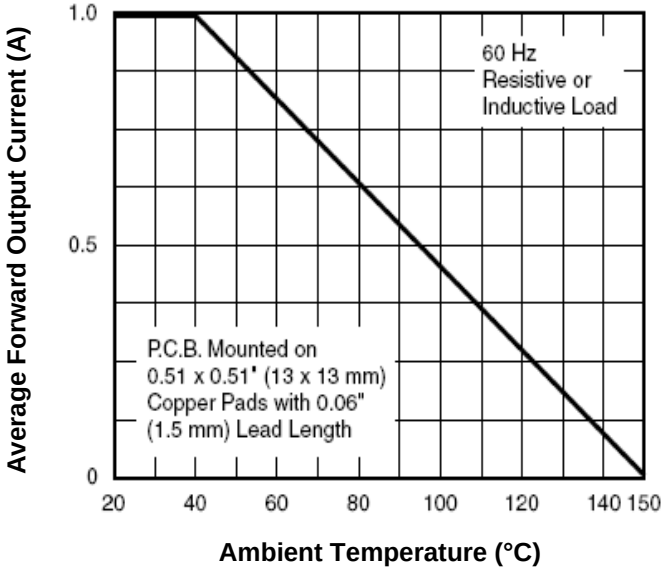


Fig.2-Max. Non-repetitive Peak Forward Surge Current per leg

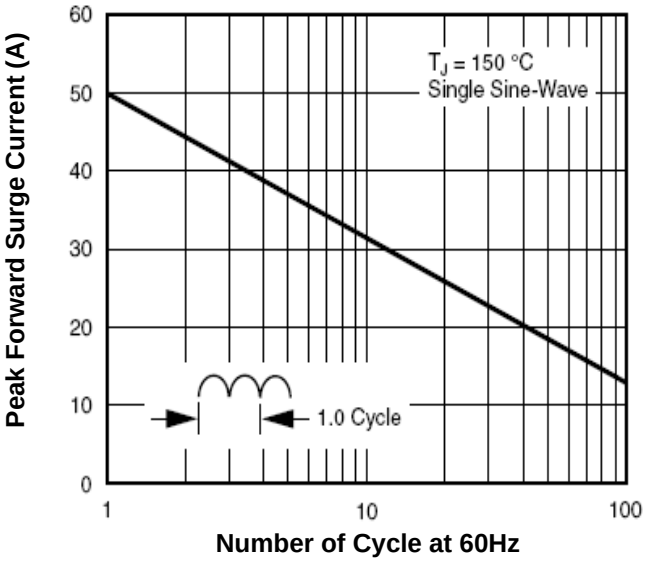


Fig.3-Typical Instantaneous Forward Characteristic per leg

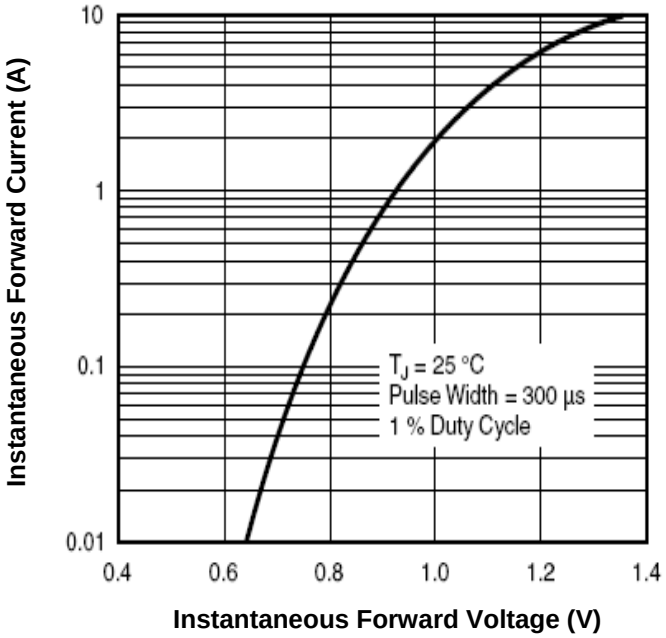


Fig.4-Typical Reverse Leakage Characteristics per leg

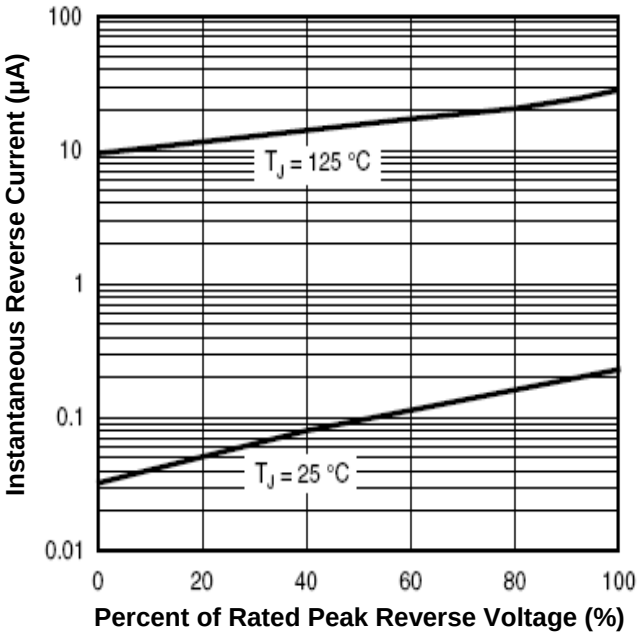
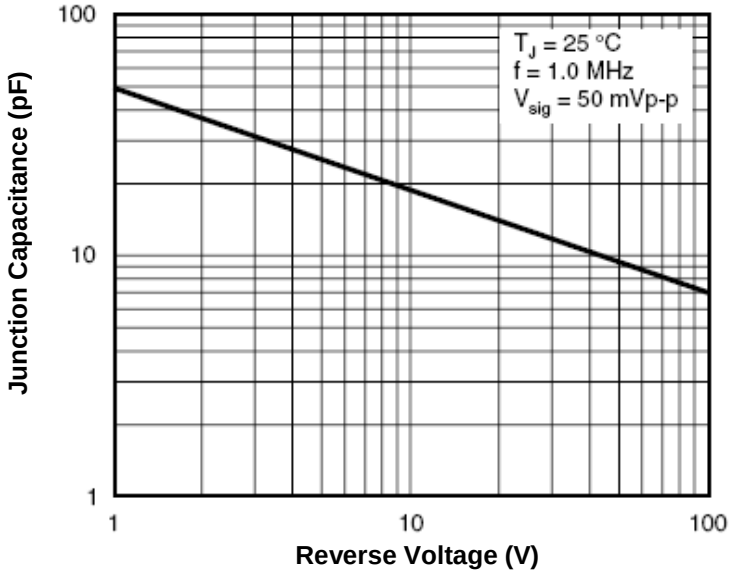
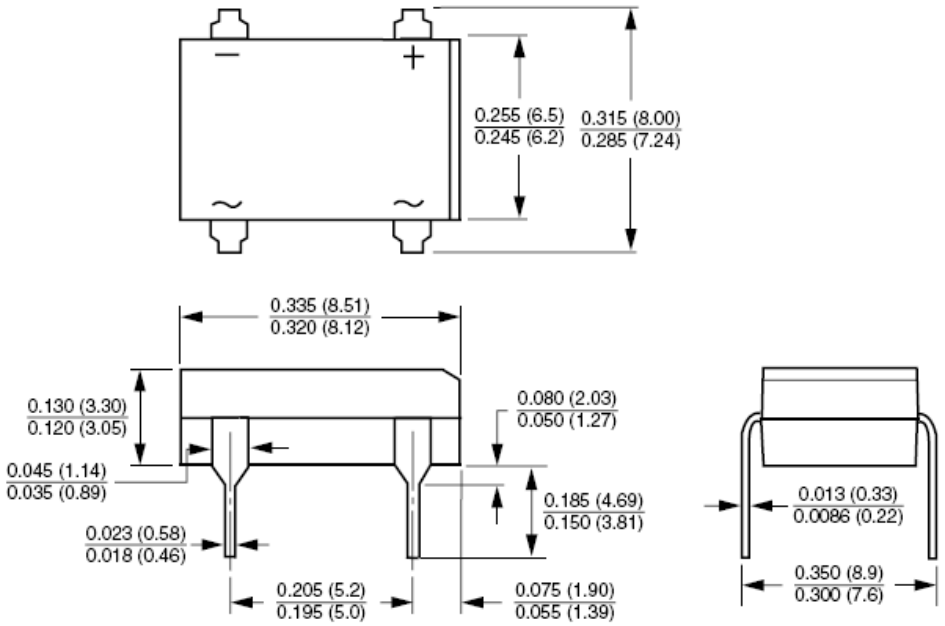


Fig.5-Typical Junction Capacitance



Dimensions in inch (mm)



DFM

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