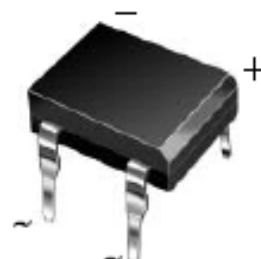


1.0A Glass Passivated Bridge Rectifier

Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit boards
- Applicable for automotive insertion
- High surge current capability
- Plastic Material – UL Flammability 94V-0
- This series is UL recognized under component index, File number E194718
- RoHS Compliant



DF



Mechanical Data

Case:	DF
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 ($T_{amb}=25^{\circ}\text{C}$)

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_{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_t	Rating for Fusing (t<8.3ms)	10							A ² s	

1.0A Glass Passivated Bridge Rectifier

DF005M – DF10M

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

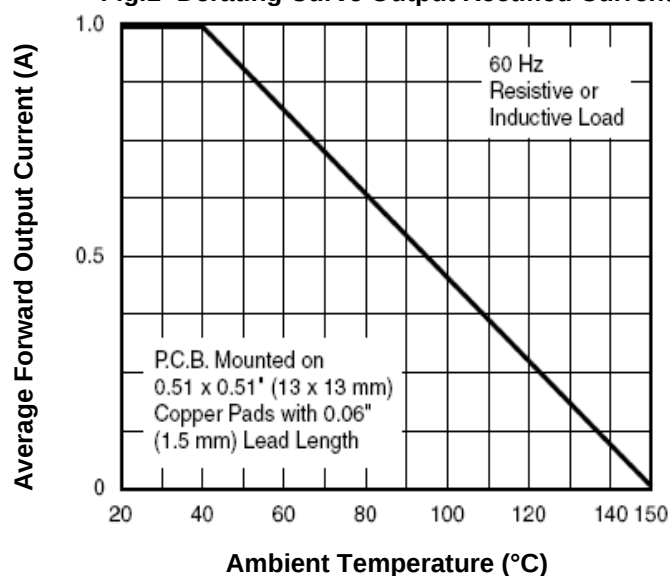
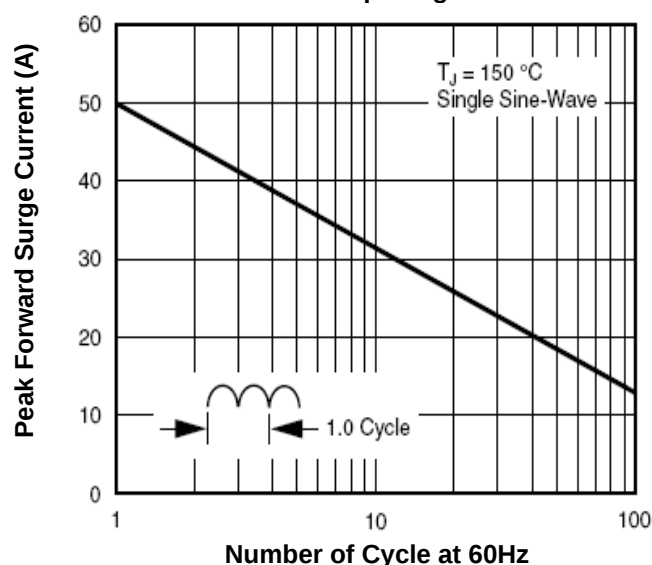


Fig.2-Max. Non-repetitive Peak Forward Surge Current per leg



1.0A Glass Passivated Bridge Rectifier

DF005M – DF10M

Fig.3-Typical Instantaneous Forward Characteristic per leg

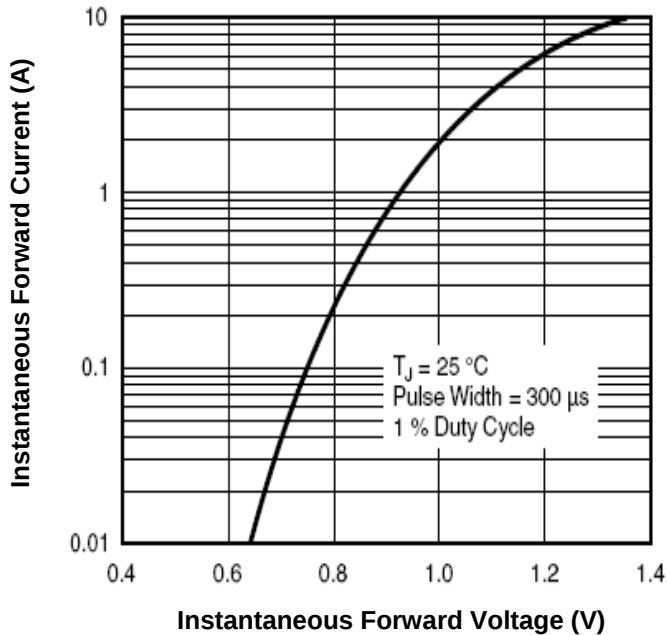


Fig.4-Typical Reverse Leakage Characteristics per leg

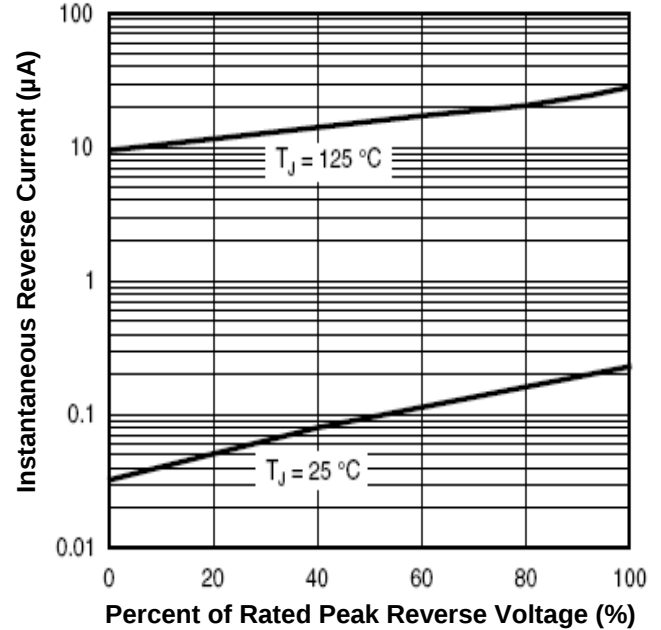
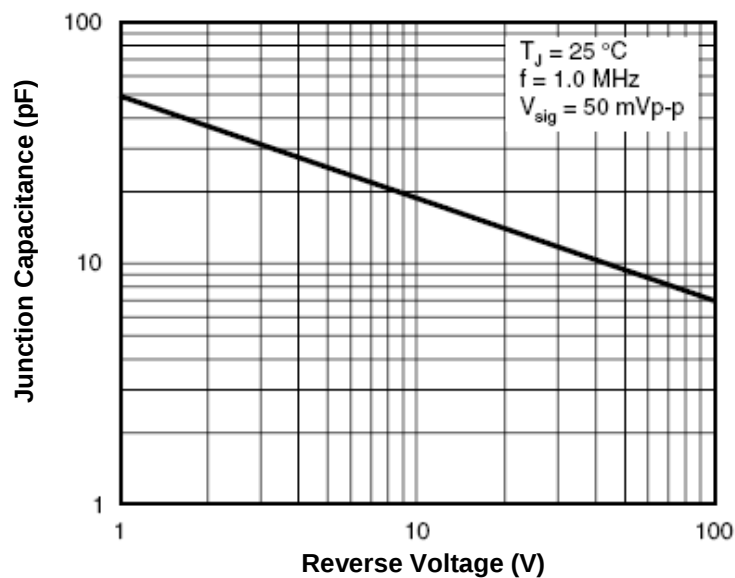


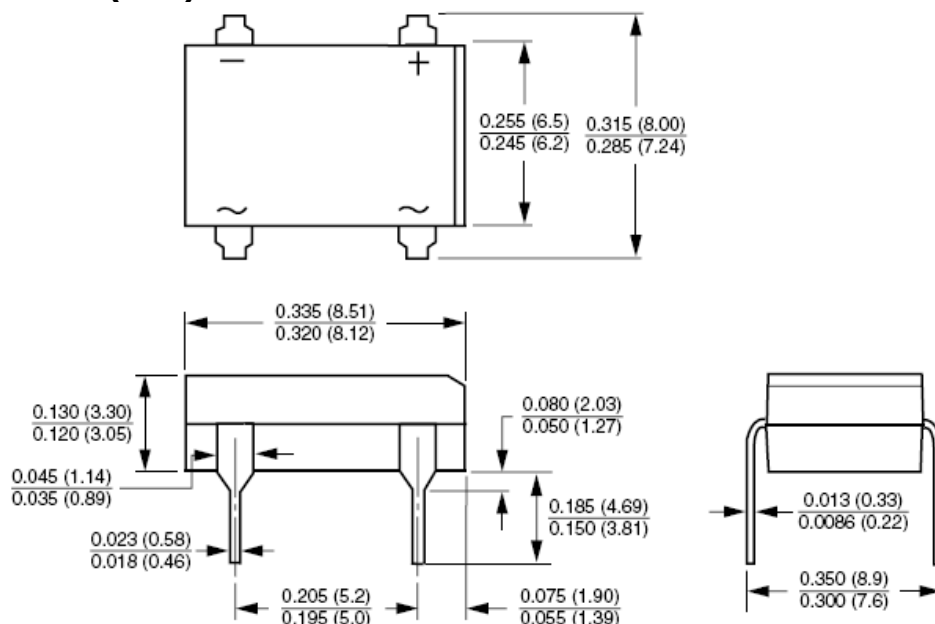
Fig.5-Typical Junction Capacitance



1.0A Glass Passivated Bridge Rectifier

DF005M – DF10M

Dimensions in inch (mm)



DF

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