

DF Plastic-Encapsulate Bridge Rectifier

General Purpose Bridge Rectifier

Features

- $I_{F(AV)}$ 1.5A
- V_{RRM} 50V-1000V
- High surge current capability
- Glass passivated chip

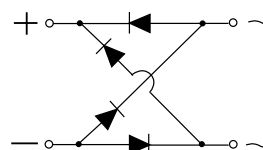
Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- DF10XM
- X : From 005 To 10

DFM



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	DF15						
				005M	01M	02M	04M	06M	08M	10M
Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V		35	70	140	280	420	560	700
Average Rectified Output Current	I _O	A	60Hz sine wave, R-load, Ta=25℃	1.5						
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz half sine wave, 1 cycle, Tj=25℃	50						
Current Squared Time	I ² t	A ² S	1ms≤t<8.3ms Tj=25℃， Rating of per diode	10.5						
Operation Junction and Storage Temperature Range	T _J , T _{stg}	℃		-55 ~+150						

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.5\text{A}$, Pulse measurement, Rating of per diode	1.0
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient, On glass-epoxi substrate	25
	$R_{\theta J-L}$		Between junction and lead	15

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

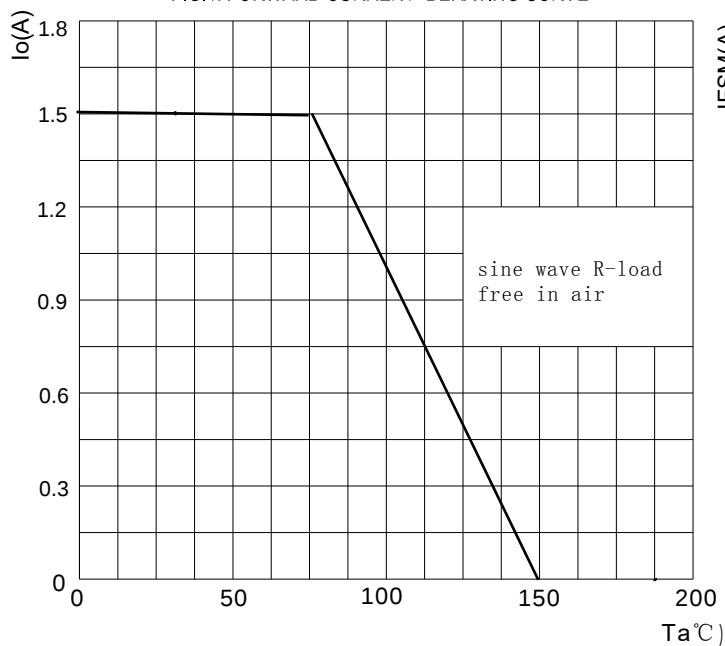


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

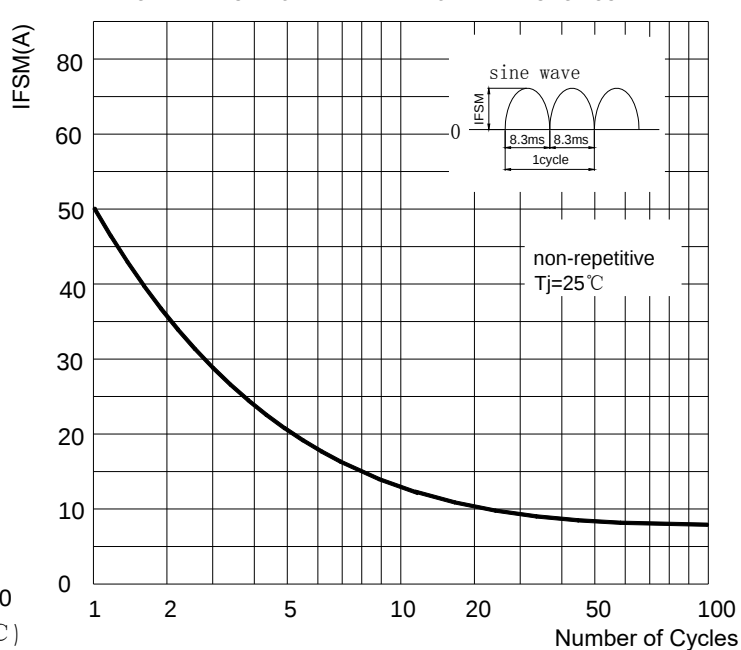


FIG.3: TYPICAL FORWARD CHARACTERISTICS

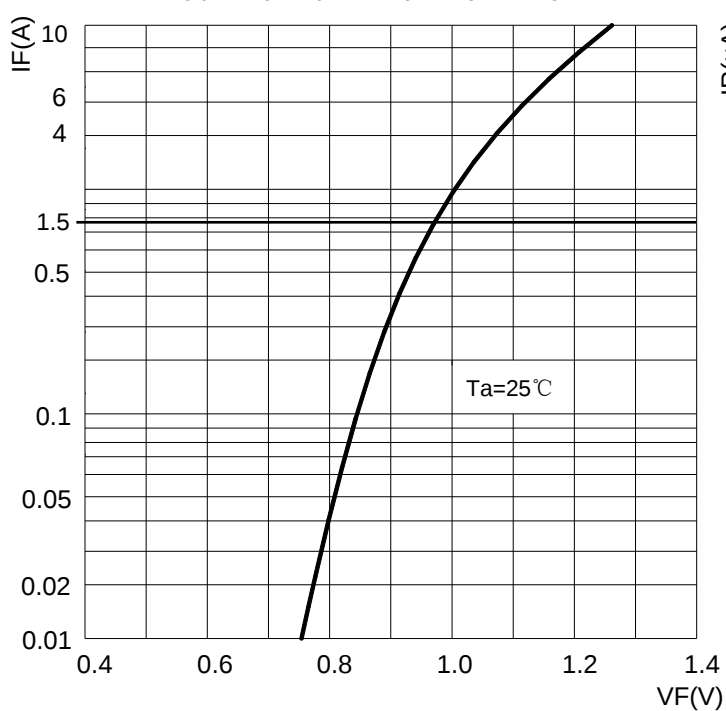
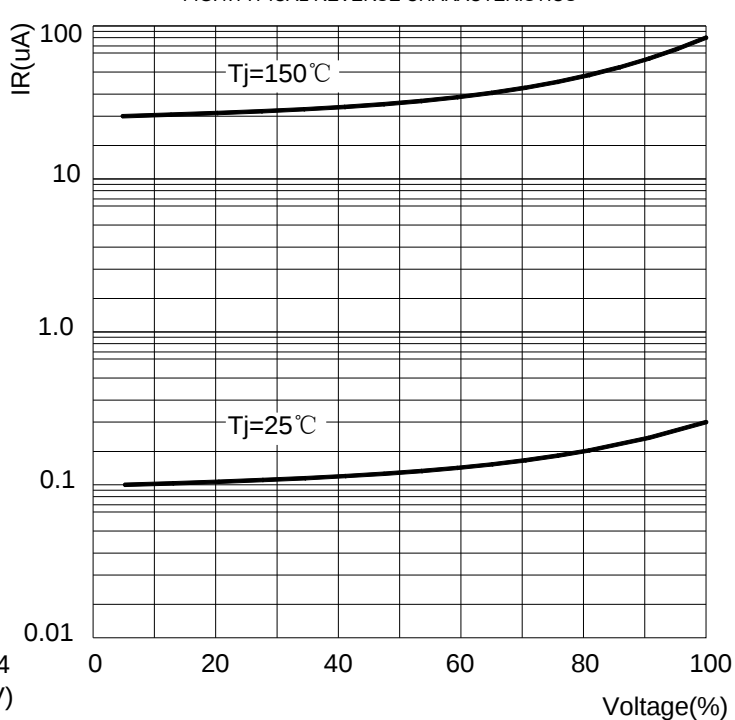
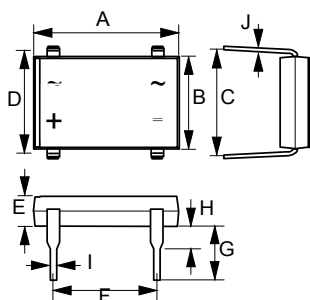


FIG.4: TYPICAL REVERSE CHARACTERISTICS



DFM Package Outline Dimensions



DFM		
DIM.	MIN.	MAX.
A	8.20	8.50
B	6.20	6.50
C	7.60	8.90
D	7.40	7.60
E	2.40	2.60
F	5.00	5.20
G	4.10	4.60
H	1.27	2.03
I	0.41	0.51
J	0.22	0.30
All Dimensions in millimeter		