

DFS Plastic-Encapsulate Bridge Rectifier

General Purpose Bridge Rectifier

Features

- $I_{F(AV)}$ 2A
- V_{RRM} 50V-1000V
- High surge current capability
- Glass passivated chip

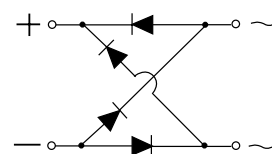
Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- DF20XS
- X : From 05 To 10

DFS



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	DF2						
				005S	01S	02S	04S	06S	08S	10S
Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	200	400	600	800	1000
MaximumRMS 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 ℃	2.0						
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz half sine wave, 1 cycle, T _j =25℃	60						
Current Squared Time	I ² t	A ² S	1ms≤t<8.3ms T _j =25℃ , Rating of per diode	14.94						
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	$I_{FM}=2.0\text{A}$, 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	68
	$R_{\theta J-L}$		Between junction and lead	15

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

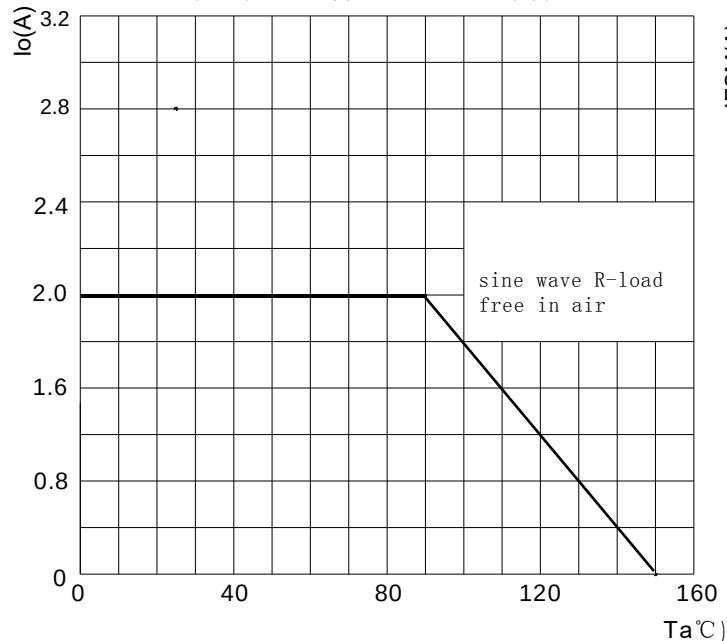


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

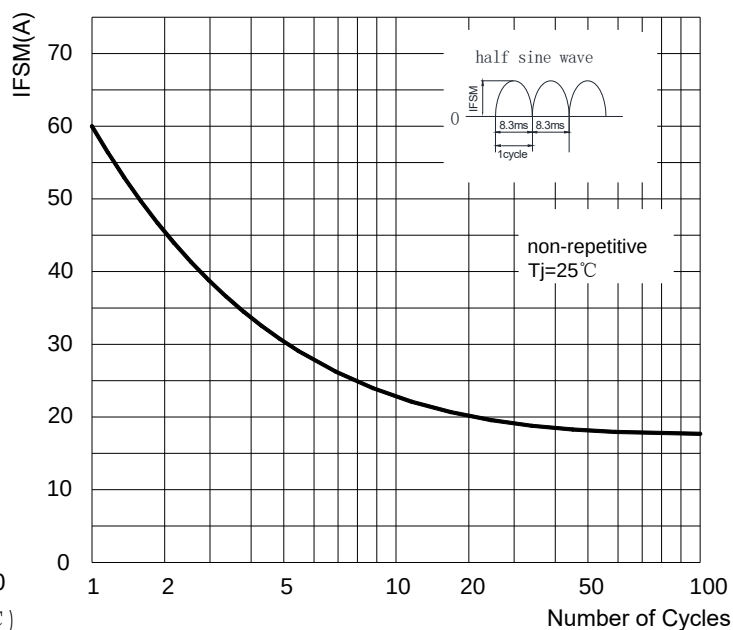


FIG.3: TYPICAL FORWARD CHARACTERISTICS

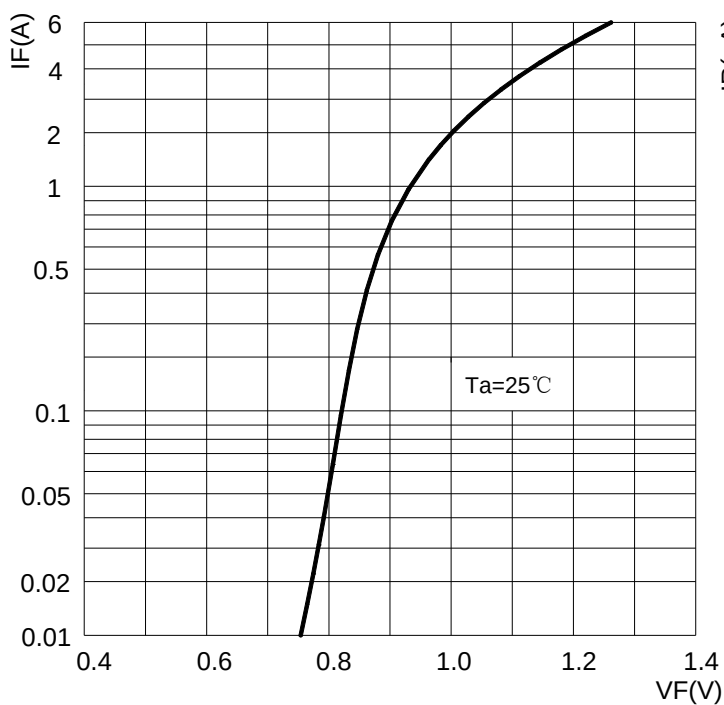
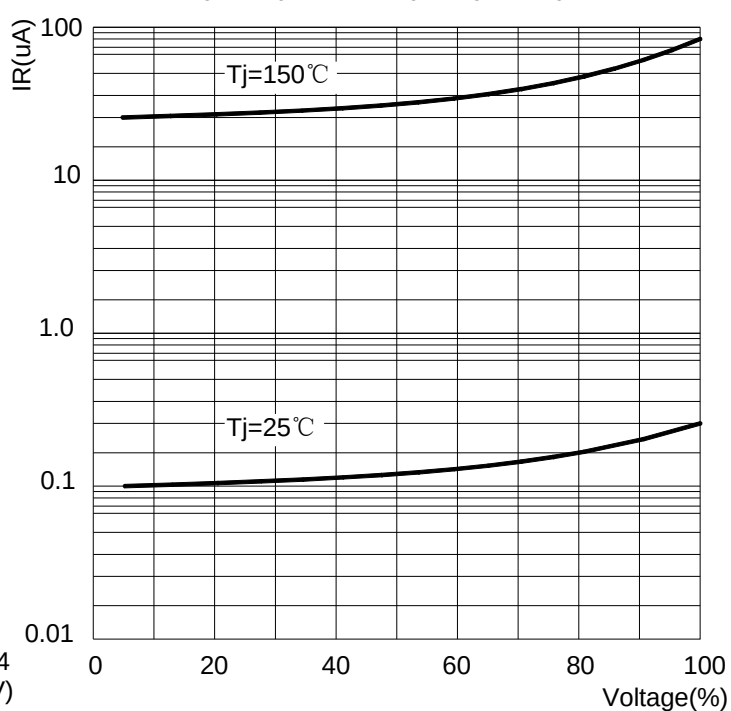
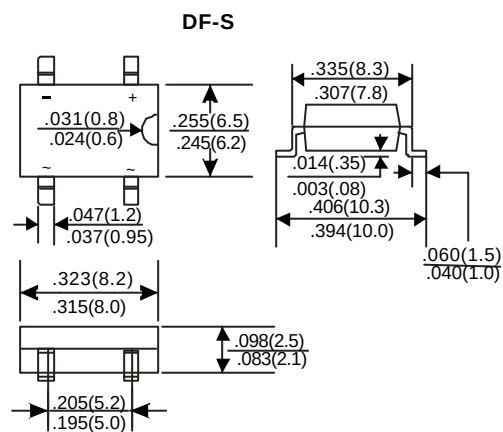


FIG.4: TYPICAL REVERSE CHARACTERISTICS

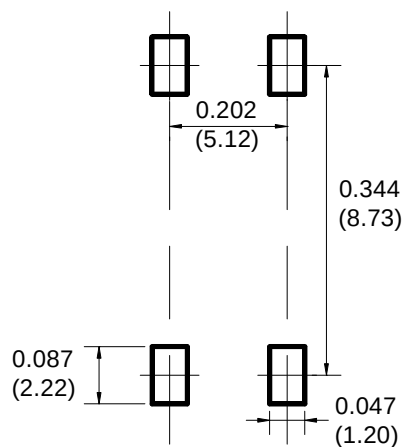


DFS Package Outline Dimensions



Dimensions in inches and (millimeters)

DFS Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.