

# **DF005M - DF10M**

## Features

- Surge overload rating: 50 amperes peak.
- Glass passivated junction.
- · Low leakage.
- UL certified, UL #E111753.



# **Bridge Rectifiers**

## Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value						Units	
		005M	01M	02M	04M	06M	08M	10M	
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V <sub>RMS</sub>	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V <sub>R</sub>	DC Reverse Voltage (Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V
I <sub>F(AV)</sub>	Average Rectified Forward Current, @ $T_A = 40^{\circ}C$				1.5				А
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	50				А			
T <sub>stg</sub>	Storage Temperature Range	-55 to +150			°C				
TJ	Operating Junction Temperature			-55	5 to +15	50			°C

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

## **Thermal Characteristics**

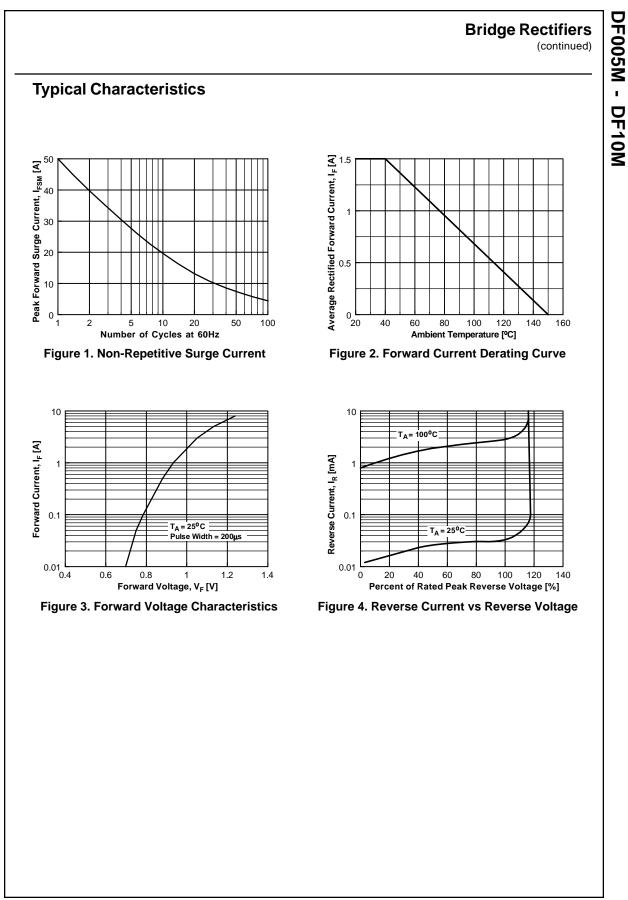
Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	3.1	W
$R_{_{ hetaJ}A}$	Thermal Resistance, Junction to Ambient,* per leg	40	°C/W

\*Device mounted on PCB with 0.5 x 0.5" (13 x 13 mm).

## Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Device	Units
V <sub>F</sub>	Forward Voltage, per bridge @ 1.0 A	1.1	V
I <sub>R</sub>	Reverse Current, total bridge @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500	μA μA
	I <sup>2</sup> t rating for fusing t < 8.35 ms	10	A <sup>2</sup> s
C <sub>T</sub>	Total Capacitance, per leg $V_R = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	25	pF

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DF005M-DF10M, Rev. C

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