

DF005M - DF10M

Features

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



Bridge Rectifiers

Absolute Maximum Ratings* $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value					Units		
		005M	01M	02M	04M	06 <mark>M</mark>	08M	10M	
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current, @ $T_A = 40^{\circ}C$				1.5				А
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	50			А				
T _{stg}	Storage Temperature Range	-55 to +150			°C				
TJ	Operating Junction Temperature			-55	5 to +1	50			°C

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

Thermal Characteristics

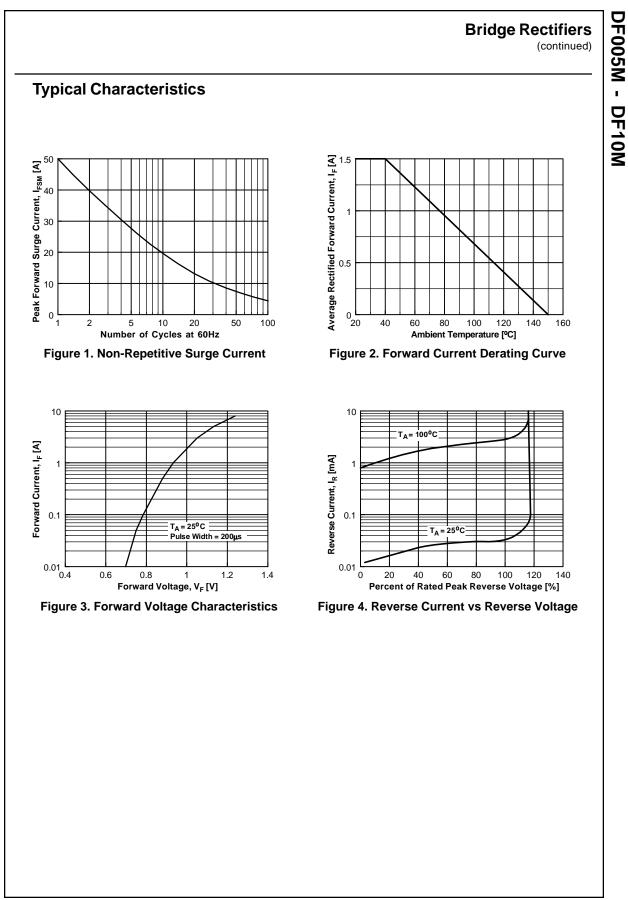
Symbol	Parameter	Value	Units
P _D	Power Dissipation	3.1	W
R _{0JA}	Thermal Resistance, Junction to Ambient,* per leg	40	°C/W

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

Electrical Characteristics T₄ = 25°C unless otherwise noted

Symbol	Parameter Device		Units	
V _F	Forward Voltage, per bridge @ 1.0 A	1.1	V	
I _R	Reverse Current, total bridge @ rated V _R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500	μΑ μΑ	
	I ² t rating for fusing t < 8.35 ms	10	A ² s	
C _T	Total Capacitance, per leg $V_R = 4.0 V$, f = 1.0 MHz	25	pF	

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DF005M-DF10M, Rev. C

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