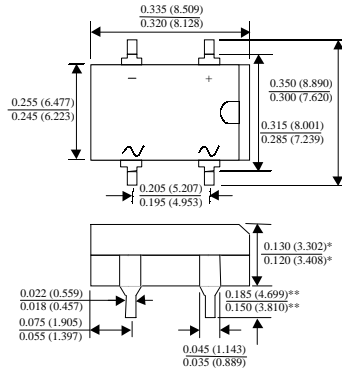


## DF005M - DF10M

### Features

- Surge overload rating: 50 amperes peak.
- Glass passivated junction.
- Low leakage.



LOW PROFILE ALSO AVAILABLE  
 BODY - - 0.102 (2.591)\*\*  
 0.095 (2.413)\*\*  
 LEAD - - 0.080 (2.032)\*\*  
 0.050 (1.270)\*\*

DIP

## 1.5 Ampere Bridge Rectifiers

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

Symbol	Parameter	Value	Units
$I_O$	Average Rectified Current @ $T_A = 40^\circ\text{C}$	1.5	A
$i_f(\text{surge})$	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	50	A
$P_D$	Total Device Dissipation Derate above $25^\circ\text{C}$	3.1 25	W mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	40	$^\circ\text{C}/\text{W}$
$T_{\text{stg}}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	-55 to +150	$^\circ\text{C}$

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

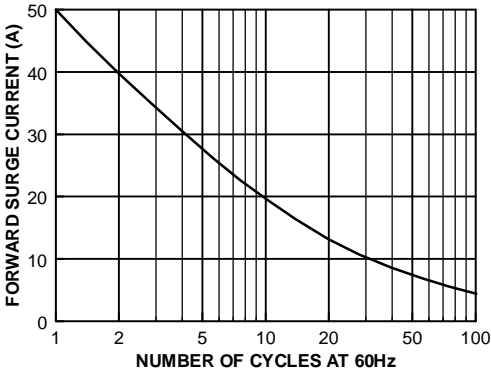
\*\*Device mounted on PCB with  $0.5 \times 0.5"$  ( $13 \times 13 \text{ mm}$ ).

### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

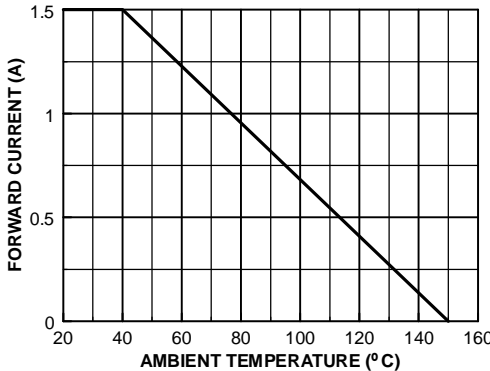
Parameter	Device							Units
	005M	01M	02M	04M	06M	08M	10M	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated $V_R$ )	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated $V_R$ $T_A = 25^\circ\text{C}$	5.0							$\mu\text{A}$
$T_A = 125^\circ\text{C}$	500							$\mu\text{A}$
Maximum Forward Voltage Drop, per bridge @ 1.0 A	1.1							V
$I^2t$ rating for fusing $t < 8.35 \text{ ms}$	10							$\text{A}^2\text{Sec}$
Typical Junction Capacitance, per leg $V_R = 4.0 \text{ V}$ , $f = 1.0 \text{ MHz}$	25							pF

Typical Characteristics

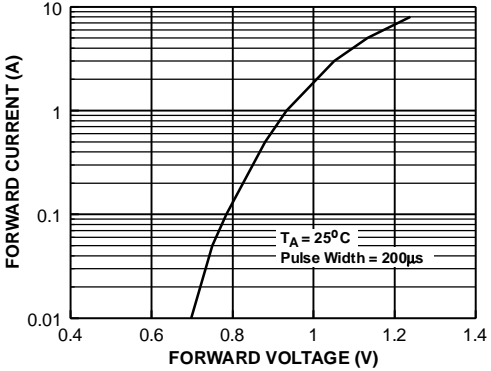
Non-Repetitive Surge Current



Output Rectified Current



Forward Characteristics



Reverse Characteristics

