

DF005M - DF10M

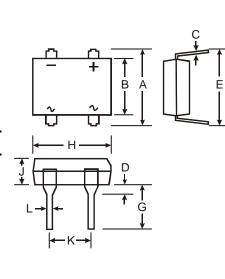
1.0A GLASS PASSIVATED BRIDGE RECTIFIERS

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 50A Peak
- Designed for Printed Circuit Board Applications
- UL Listed Under Recognized Component Index, File
 Number E94661
- Lead Free Finish, RoHS Compliant (Date Code 0532+)
 (Note 3)

Mechanical Data

- Case: DF-M
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Solder Plated Leads, Solderable per MIL-STD-202, Method 208
 ⁽³⁾
- Polarity: As Marked on Case
- Marking Information: Type Number, See Page 3
- Weight: 0.38 grams (approximate)



DF-M							
Dim	Min Max						
Α	7.40	7.90					
В	6.20	6.50					
С	0.22	0.30					
D	1.27	2.03					
Е	7.60	8.90					
G	3.81	4.69					
н	8.13	8.51					
J	2.40	3.40					
к	5.00	5.20					
L	0.46	0.58					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics

@T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

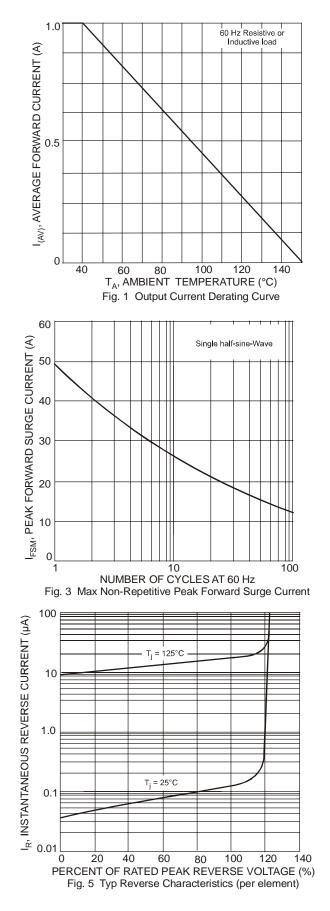
Characteristic		Symbol	DF 005M	DF 01M	DF 02M	DF 04M	DF 06M	DF 08M	DF 10M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RMM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{RMS}	35	70	140	280	420	580	700	V
Average Rectified Output Current	@ T _A = 40°C	lo	1.0					А		
Non-Repetitive Peak Forward Surge Current, 8.3 m Single Half Sine-Wave Superimposed on Rated Lo		I _{FSM}				50				А
Forward Voltage (per element)	@ I _F = 1.0 A	V _{FM}	1.1				V			
Peak Reverse Current at Rated DC Blocking Voltage (per element)	@ T _A = 25°C @ T _A = 125°C		10 500				μA			
I ² t Rating for Fusing (t<8.3ms)		l ² t				10.4				A ² s
Typical Total Capacitance per element	(Note 1)	CT	25			pF				
Typical Thermal Resistance, Junction to Ambient	(Note 2)	$R_{ ext{ heta}JA}$				40				°C/W
Operating and Storage Temperature Range		Tj, T _{STG}			-6	65 to +15	50			°C

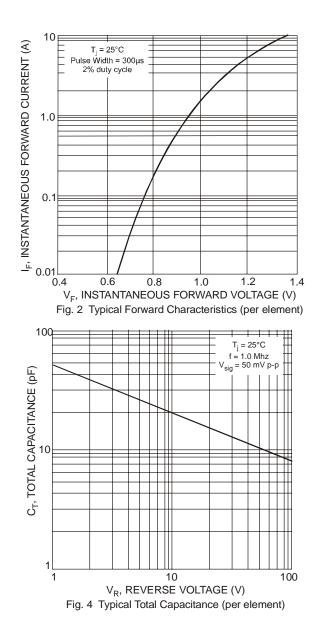
Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal Resistance, junction to ambient, measured on PC board with 5.0mm² (0.03mm thick) land areas.

3. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.









Ordering Information (Note 4)

Device*	Packaging	Shipping		
DFxM	DF-M	Tube		

* x = Device type, e.g. DF005M or DF10M, etc.

Notes: 4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



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