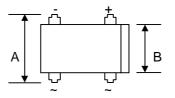
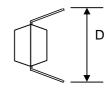
DF005 - DF10

1.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-O





Mechanical Data

Case: Molded Plastic

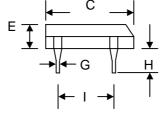
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Case

Weight: 0.38 grams (approx.)

Mounting Position: Any

• Marking: Type Number



*Low profile models (E = 2.20~2.50mm) are available.

Please consult factory.

DIL					
Dim	Min	Max			
Α	7.40	7.90			
В	6.20	6.50			
С	8.13	8.51			
D	7.60	8.90			
E*	3.20	3.40			
G	0.41	0.51			
Н	3.90	4.20			
ı	5.0	5.20			
All Dimensions in mm					

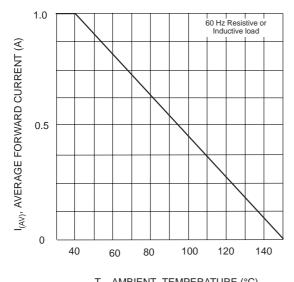
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

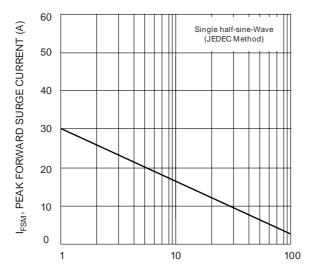
Characteristic	Symbol	DF005	DF01	DF02	DF04	DF06	DF08	DF10	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _A = 40°C	lo	1.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						А	
Forward Voltage per element @I _F = 1.0A	VFM				1.1				V
	lгм	10 500						μΑ	
Typical Junction Capacitance per element (Note 1)	Cj	25					pF		
Typical Thermal Resistance (Note 2)	$R_{ heta}JA$	40						K/W	
Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +150						°C	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

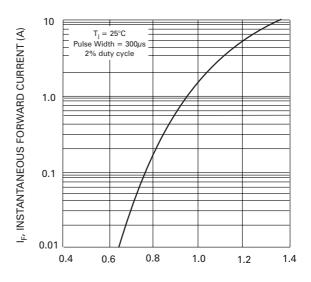
2. Thermal resistance junction to ambient mounted on PC board with 13mm² copper pad.



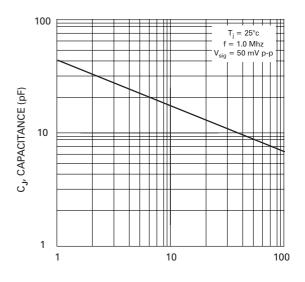
T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Output Current Derating Curve



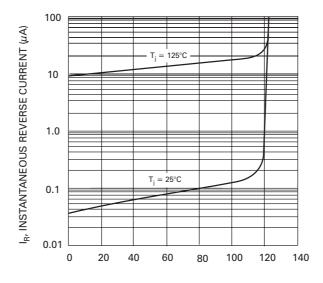
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Forward Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typ Forward Characteristics (per element)



V_R, REVERSE VOLTAGE (V)
Fig. 4 Typ Junction Capacitance (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typ Reverse Characteristics (per element)

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
DF005	DIL Bridge	50 Units/Tube
DF01	DIL Bridge	50 Units/Tube
DF02	DIL Bridge	50 Units/Tube
DF04	DIL Bridge	50 Units/Tube
DF06	DIL Bridge	50 Units/Tube
DF08	DIL Bridge	50 Units/Tube
DF10	DIL Bridge	50 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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