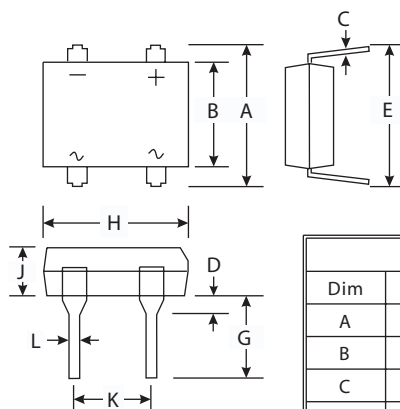


DF005 THRU DF10

CURRENT 1.0 Ampere
VOLTAGE 50 to 1000 Volts

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 50A Peak
- Designed for Printed Circuit Board Applications
- Plastic Material - UL Flammability Classification 94V-0



DF		
Dim	Min	Max
A	7.40	7.90
B	6.20	6.50
C	0.22	0.30
D	1.27	2.03
E	7.60	8.90
G	3.81	4.69
H	8.13	8.51
J	2.40	2.60
K	5.00	5.20
L	0.46	0.58
All Dimensions in mm		

Mechanical Data

- Case : Molded Plastic
- Terminals : Solder Plated Leads,
Solderable per MIL-STD-202, Method 208
- Polarity : As Marked on Case
- Approx. Weight : 0.38 grams
- Mounting Position : Any
- Marking : Type Number

Maximum Ratings And Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

		Symbols	DF005	DF01	DF02	DF04	DF06	DF08	DF10	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RMM} V _{RWM} V _R	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ T _A =40°C		I _o	1.0							Amp
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	50							Amps
Forward Voltage (per element) @ I _F =1.0 A		V _{FM}	1.1							Volts
Peak Reverse Current at Rated DC Blocking Voltage (per element)	@ T _A =25°C	I _{RM}	10							μ A
	@ T _A =125°C		500							
I ² t Rating for Fusing (t<8.3ms)		I ² t	10.4							A ² s
Typical Junction Capacitance per element (Note 1)		C _j	25							pF
Typical Thermal Resistance, Junction to Ambient (Note 2)		Rθ JA	40							°C/W
Operating and Storage Temperature Range		T _j T _{STG}	-65 to +150							°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 5.0²mm (0.03mm thick) land areas.

RATING AND CHARACTERISTIC CURVES DF005 THRU DF10

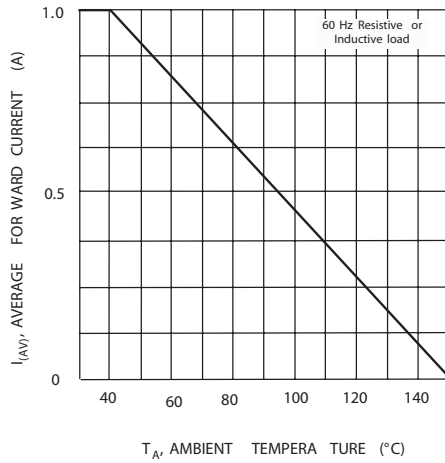


Fig. 1 Output Current Derating Curve

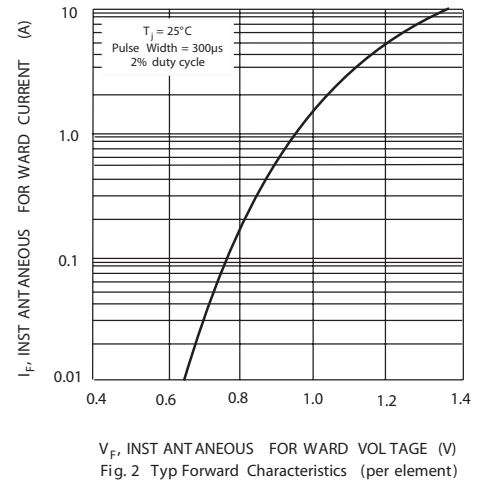


Fig. 2 Typ Forward Characteristics (per element)

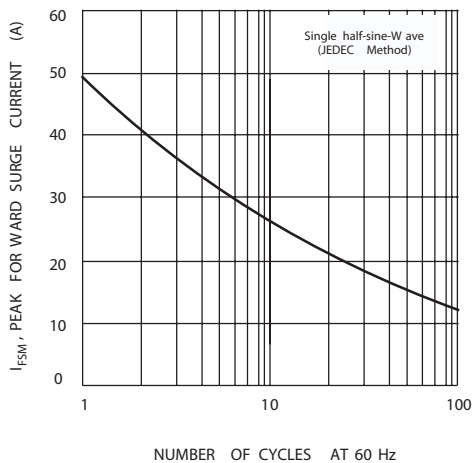


Fig. 3 Max Non-Repetitive Peak Forward Surge Current

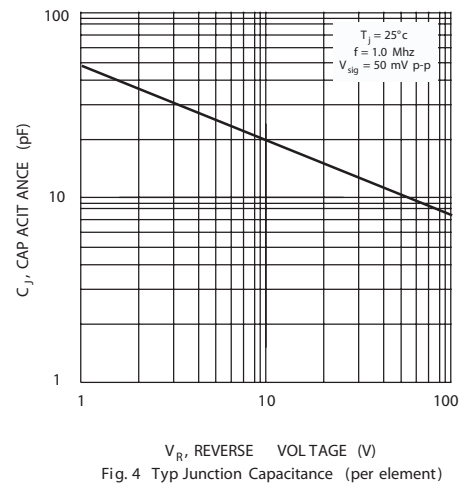


Fig. 4 Typ Junction Capacitance (per element)

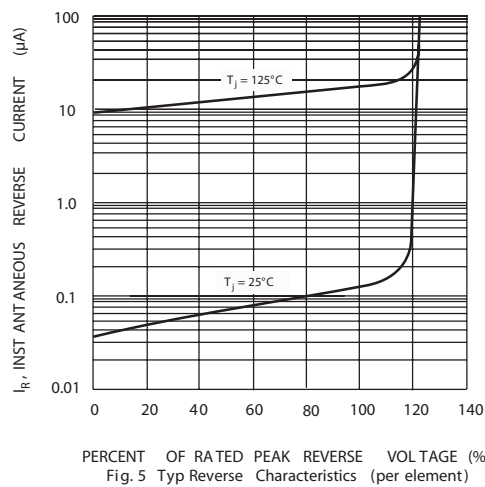


Fig. 5 Typ Reverse Characteristics (per element)