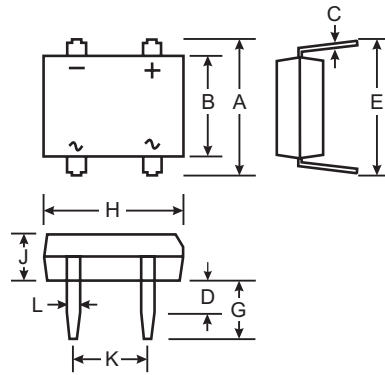


Features

- 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
- UL Listed Under Recognized Component Index, File Number E95060

Mechanical Data

- Case: Molded Plastic
- Terminals: Solder 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

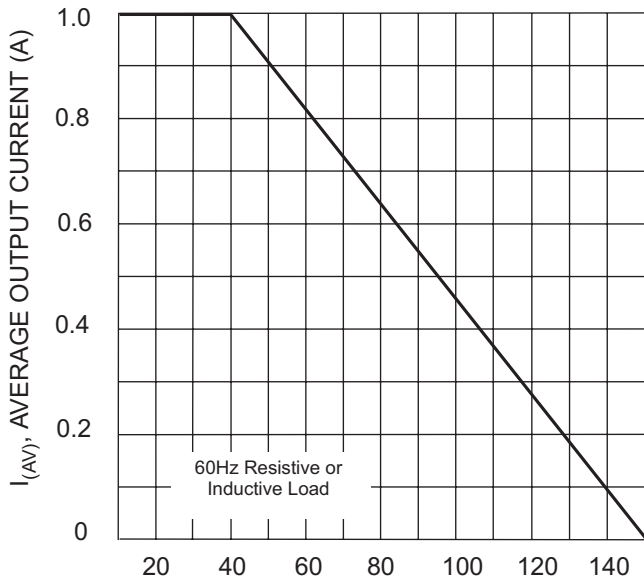


DF-1		
DIM	Min	Max
A	7.4	7.9
B	6.2	6.5
C	0.22	0.30
D	1.27	2.03
E	7.6	8.9
G	3.81	4.69
H	8.1	9.3
J	2.4	3.4
K	5.0	5.2
L	0.46	0.58
All Dimensions in mm		

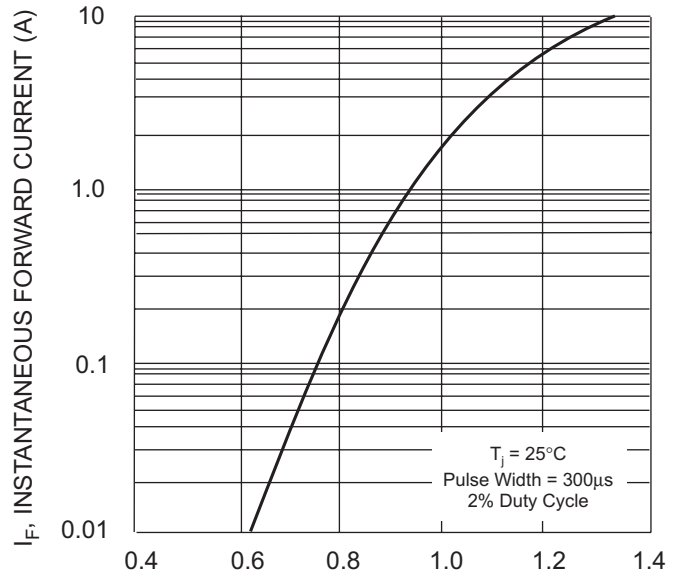
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	DF005	DF01	DF02	DF04	DF06	DF08	DF10	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _A = 40°C	I _O					1.0			A
Non-Repetive Peak Forward Surge Current, 8.3 single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					50			A
Forward Voltage (per element) @ I _F = 1.0A	V _{FM}					1.1			V
Peak Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage (per element) @ T _A = 125°C	I _{RM}					10 0.5			μA mA
I ² t Rating for Fusing (t < 8.3ms)	I ² t					10.4			A ² s
Typical Thermal Resistance, Junction to Ambient (Note 2)	R _{θJA}					110			K/W
Junction Storage and Operating Temperature Range	T _j , T _{STG}					-65 to +150			°C

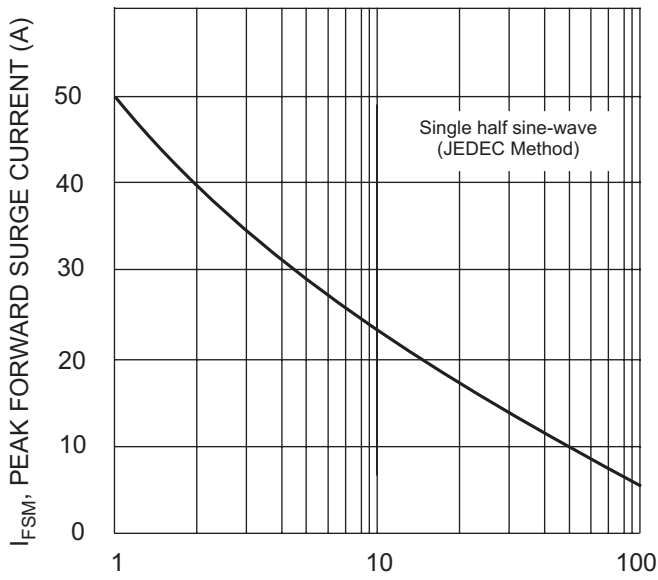
- Notes:
1. 60 Hz resistive or inductive load.
 2. Thermal Resistance, Junction to Ambient, measured on PC board with 5.0²mm (0.03mm thick) land areas.



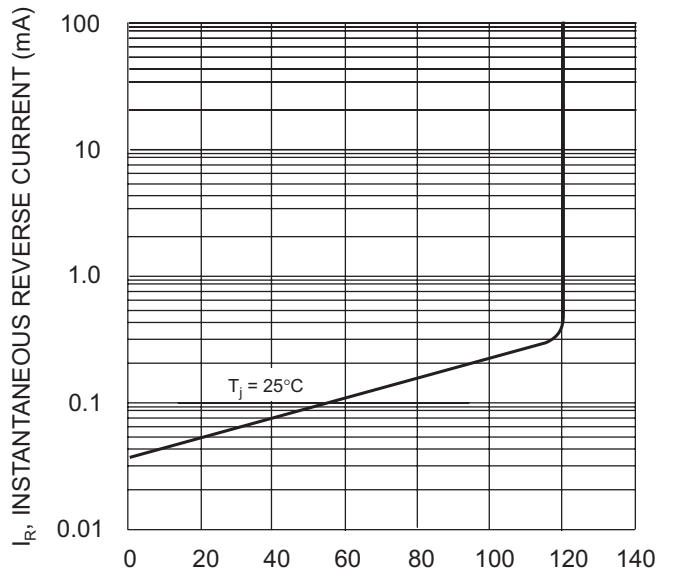
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Maximum Output Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (VOLTS)
Fig. 2 Typical Forward Characteristics (per element)



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



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 4 Typical Reverse Characteristics (per element)