

DF005S - DF10S

1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

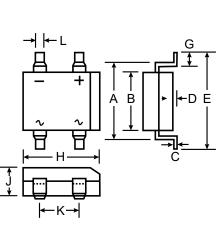
Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 50A Peak
- Designed for Surface Mount Application
- Plastic Material UL Flammability Classification 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

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

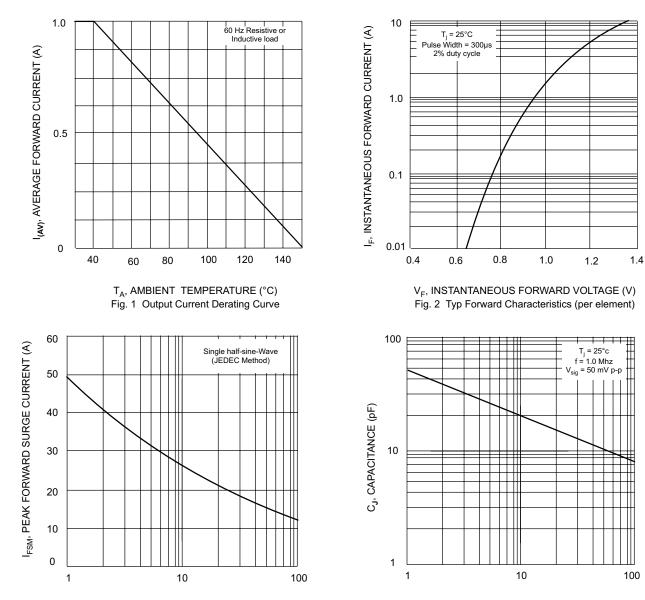


DF-S								
Dim	Min	Max						
Α	7.40	7.90						
В	6.20	6.50						
С	0.22	0.30						
D	0.076	0.33						
E	—	10.40						
G	1.02	1.53						
Н	8.13	8.51						
J	2.40	2.60						
к	5.00	5.20						
L	1.00	1.20						
All Dimensions in mm								

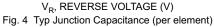
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	DF 005S	DF 01S	DF 02S	DF 04S	DF 06S	DF 08S	DF 10S	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	560	700	V
Average Forward Rectified Current @ $T_A = 40^{\circ}C$	lo	1.0						А	
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50					A		
Forward Voltage (per element) @ I _F = 1.0A	VFM	1.1						V	
Peak Reverse Current at Rated@ $T_A = 25^{\circ}C$ DC Blocking Voltage (per element)@ $T_A = 125^{\circ}C$	I _{RM}	10 500						μA	
I ² t Rating for Fusing (t<8.3ms)		10.4							A ² s
Typical Junction Capacitance (per element) (Note 1)		25							pF
Typical Thermal Resistance, Junction to Ambient (Note 2)		40						°C/W	
Operating and Storage Temperature Range		-65 to +150						°C	



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



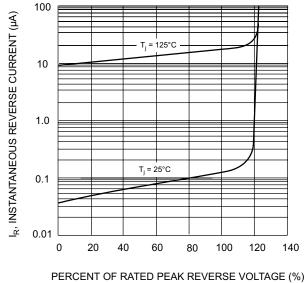


Fig. 5 Typ Reverse Characteristics (per element)