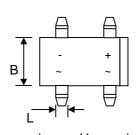


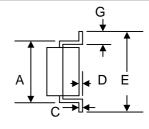
DF005S - DF10S

1.0A SURFACE MOUNT 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 (J = 2.20~2.50mm) are available.

Please consult factory.

DF-S						
Dim	Min	Max				
Α	7.40	7.90				
В	6.20	6.50				
С	0.009	0.25				
D	0.076	0.33				
Е	_	10.40				
G	1.02	1.53				
Н	8.13	8.51				
J*	3.20	3.40				
K	5.0	5.20				
L	1.00	1.20				
All Dimensions in mm						

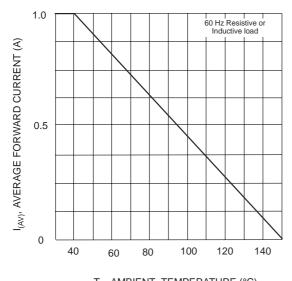
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

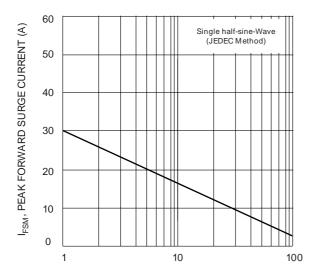
Characteristic	Symbol	DF 005S	DF 01S	DF 02S	DF 04S	DF 06S	DF 08S	DF 10S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _A = 40°C	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
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	10 500					μΑ		
Typical Junction Capacitance per element (Note 1)	Cj	25					pF		
Typical Thermal Resistance (Note 2)	RθJA	110					K/W		
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150					°C		

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

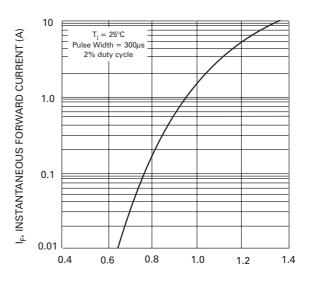
 $2. \ Thermal\ resistance\ junction\ to\ ambient\ mounted\ on\ PC\ board\ with\ 5.0mm^2\ (0.03mm\ thick)\ land\ areas.$



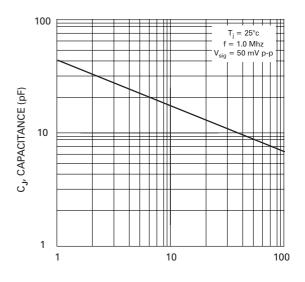
T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Output Current Derating Curve



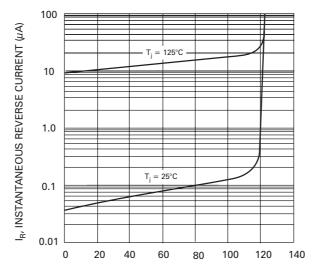
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Forward Surge Current



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



 $\label{eq:VR} {\rm V_{R},\,REVERSE\,\,VOLTAGE\,\,(V)}$ Fig. 4 Typ Junction Capacitance (per element)



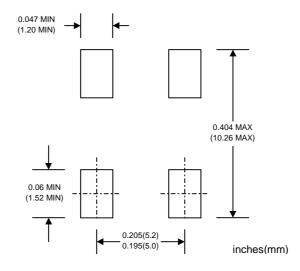
PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typ Reverse Characteristics (per element)

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity			
DF005S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF005S	DIL Bridge SMD	50 Units/Tube			
DF01S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF01S	DIL Bridge SMD	50 Units/Tube			
DF02S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF02S	DIL Bridge SMD	50 Units/Tube			
DF04S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF04S	DIL Bridge SMD	50 Units/Tube			
DF06S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF06S	DIL Bridge SMD	50 Units/Tube			
DF08S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF08S	DIL Bridge SMD	50 Units/Tube			
DF10S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF10S	DIL Bridge SMD	50 Units/Tube			

Products listed in **bold** are WTE **Preferred** devices. •T3 suffix refers to a 13" reel.

RECOMMENDED FOOTPRINT



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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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We power your everyday.

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