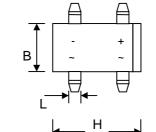
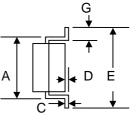


## **1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER**

## **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. F

Κ

Please consult factory.	
lease consult lactory.	

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		
E	—	10.40		
G	1.02	1.53		
н	8.13	8.51		
J*	3.20	3.40		
К	5.0	5.20		
L	1.00	1.20		
All Dimensions in mm				

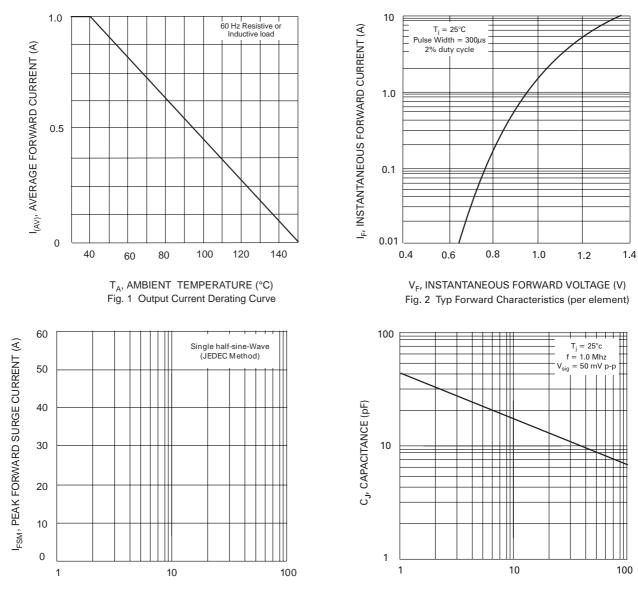
# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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 $@T_A = 40^{\circ}C$	lo	1.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				30				A
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 $@T_A = 125^{\circ}C$	Iгм				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	Тj, Tsтg			-(	65 to +15	60			°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<sup>2</sup> (0.03mm thick) land areas.



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

V<sub>R</sub>, REVERSE VOLTAGE (V) Fig. 4 Typ Junction Capacitance (per element)

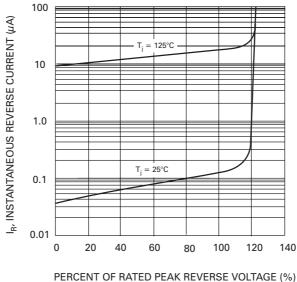


Fig. 5 Typ Reverse Characteristics (per element)

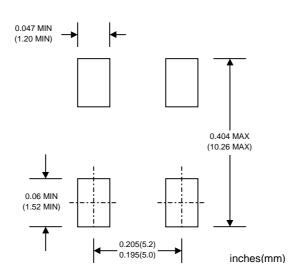
Product No.	Package Type	Shipping Quantity
DF005S-T3	DIL Bridge SMD	1500/Tape & Reel
DF005S	DIL Bridge SMD	50 Units/Tube
DF01S-T3	DIL Bridge SMD	1500/Tape & Reel
DF01S	DIL Bridge SMD	50 Units/Tube
DF02S-T3	DIL Bridge SMD	1500/Tape & Reel
DF02S	DIL Bridge SMD	50 Units/Tube
DF04S-T3	DIL Bridge SMD	1500/Tape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

### **ORDERING INFORMATION**

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

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

### **RECOMMENDED FOOTPRINT**



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

#### Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.