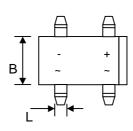


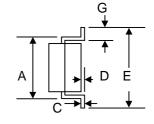
DF150S - DF1510S

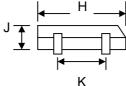
1.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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: AnyMarking: Type Number

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	8.03	8.51					
J	2.20	2.50					
K	5.0	5.20					
L	1.00	1.20					
All Dimensions in mm							

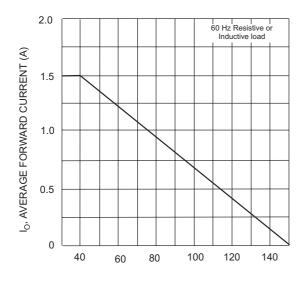
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

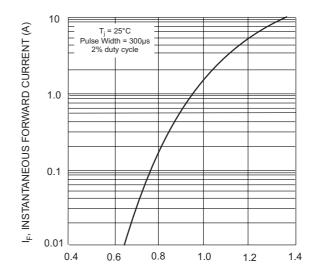
Characteristic	Symbol	DF 150S	DF 151S	DF 152S	DF 154S	DF 156S	DF 158S	DF 1510S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _A = 40°C	lo	1.5					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					А		
Forward Voltage per element $@I_F = 1.5A$	VFM				1.1				٧
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	74						K/W	
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150					°C		

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

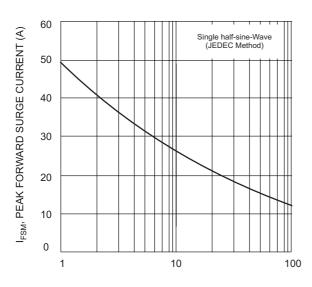
2. Thermal resistance junction to ambient mounted on PC board with 5.0mm² (0.03mm thick) land areas.



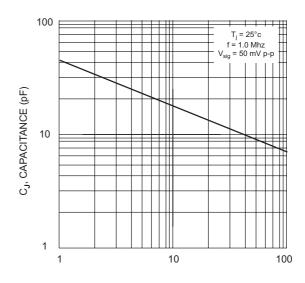
T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Output Current Derating Curve



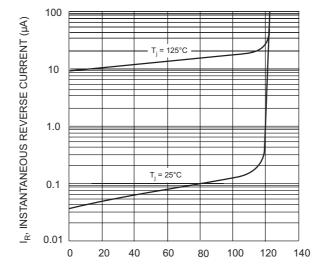
V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typ Forward Characteristics (per element)



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



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



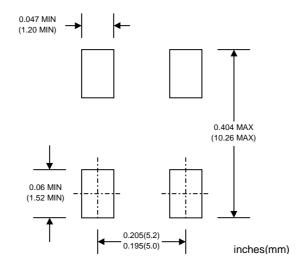
PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typ Reverse Characteristics (per element)

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity			
DF150S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF150S	DIL Bridge SMD	50 Units/Tube			
DF151S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF151S	DIL Bridge SMD	50 Units/Tube			
DF152S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF152S	DIL Bridge SMD	50 Units/Tube			
DF154S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF154S	DIL Bridge SMD	50 Units/Tube			
DF156S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF156S	DIL Bridge SMD	50 Units/Tube			
DF158S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF158S	DIL Bridge SMD	50 Units/Tube			
DF1510S-T3	DIL Bridge SMD	1500/Tape & Reel			
DF1510S	DIL Bridge SMD	50 Units/Tube			

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

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.

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