

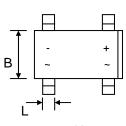


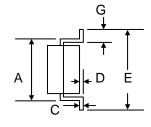
# 1.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER



# **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-0





# J --

# J H H H

# **Mechanical Data**

Case: DF-S, 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

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4

DF-S					
Dim	Min	Max			
Α	7.80	8.50			
В	6.20	6.50			
С	0.20	0.35			
D	0.076	0.33			
E	_	10.40			
G	1.02	1.53			
Н	8.13	8.80			
J	2.20	2.50			
K	5.00	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%.

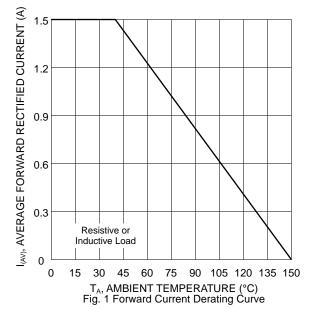
Characteristic	Symbol	DF 150S	DF 151S	DF 152S	DF 154S	DF 156S	DF 158S	DF 1510S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current @T <sub>A</sub> = 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 <sub>F</sub> = 1.5A	VFM	1.1						V	
	IRM				5.0 500				μΑ
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	10						A <sup>2</sup> s	
Typical Junction Capacitance per leg (Note 1)	C1	25					pF		
Typical Thermal Resistance per leg (Note 2)	R JA R JL	40 15						°C/W	
Operating and Storage Temperature Range	ТЈ, Тѕтс			-(	65 to +15	50			°C

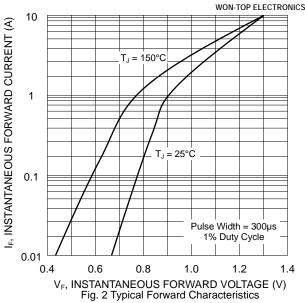
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

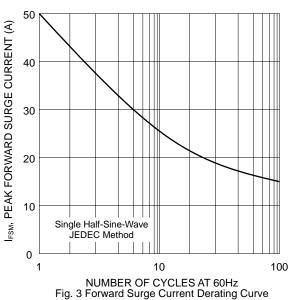
2. Mounted on PC board with 13 x 13mm copper pad.

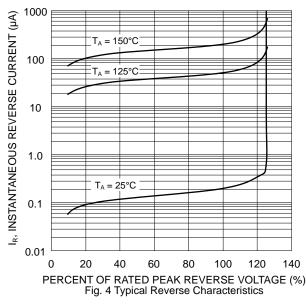
# **DF150S - DF1510S**

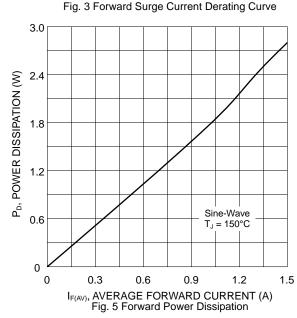


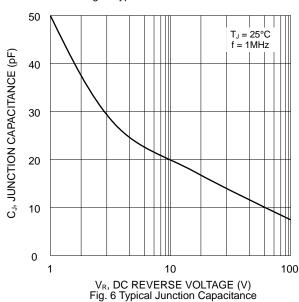








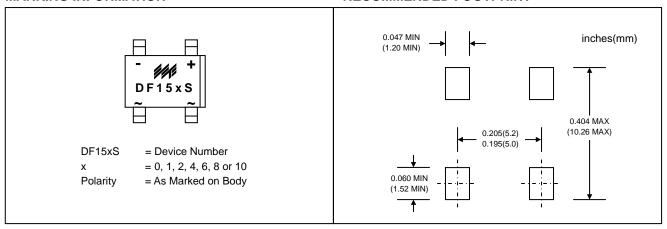






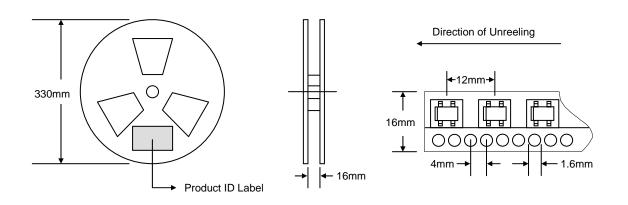
# **MARKING INFORMATION**

# RECOMMENDED FOOTPRINT



# **PACKAGING INFORMATION**





Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	1,500	340 x 337 x 45	3,000	370 x 370 x 420	24,000	17.0

Note: 1. Anti-static or paper reel, blue or white color.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.



### **ORDERING INFORMATION**

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

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, DF150S-T3-LF.

WON-TOP ELECTRONICS and are registered trademarks of Won-Top Electronics Co., Ltd (WTE). 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 806, 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.