

DF150S - DF1510S

1.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

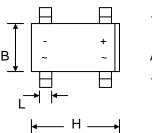


Features

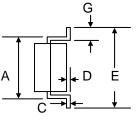
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-0



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



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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

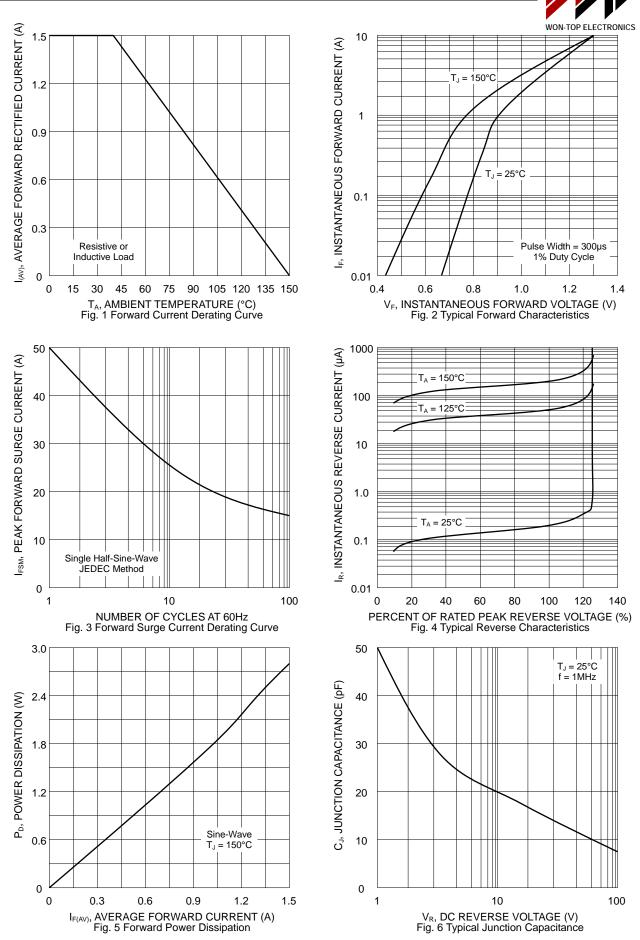
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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	V
Average Rectified Output Current $@T_A = 40^{\circ}C$	lo	1.5					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				50				A
Forward Voltage per element $@I_F = 1.5A$	Vfm	1.1				V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Iгм	5.0 500				μA			
I ² t Rating for Fusing (t < 8.3ms)	l ² t				10				A ² s
Typical Junction Capacitance per leg (Note 1)	Сл				25				pF
Typical Thermal Resistance per leg (Note 2)	R JA R JL				40 15				°C/W
Operating and Storage Temperature Range	TJ, TSTG			-(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.

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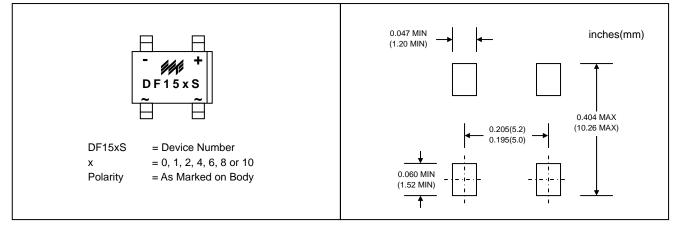


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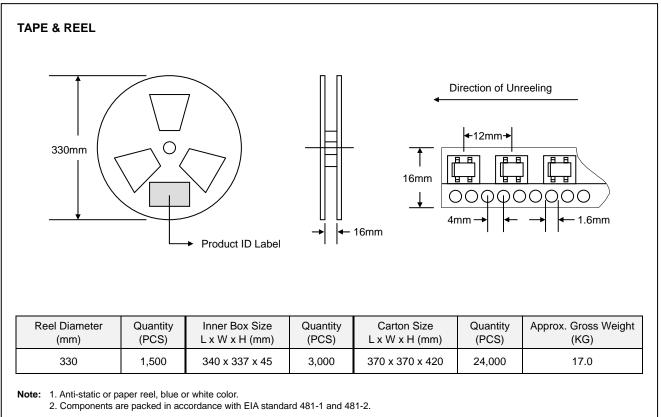


MARKING INFORMATION



RECOMMENDED FOOTPRINT

PACKAGING 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

ORDERING INFORMATION

1. 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.

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