



DF15005S - DF1510S

1.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features and Benefits

- Glass Passivated Die Construction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 50A Peak
- Designed for Surface Mount Applications
- UL Listed Under Recognized Component Index, File Number E94661
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

Mechanical Data

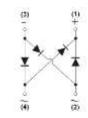
- Case: DF-S
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Tin. Solder Plated Leads, Solderable per MIL-STD-202, Method 208 🔅
- Polarity: As Marked on Case
- Marking: Type Number
- Weight: 0.38 grams (Approximate)



Top View



Pin Diagram



Internal Schematic

Ordering Information (Note 4)

Device	Packaging	Shipping
DF15xxxS-T	DF-S	1500/Tape & Reel
DF15xxxS	DF-S	50/Tube

1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied.

Notes:

Lo Directive 2002/30/Lo (Rono) & 2017/00/Lo (Rono) 2) compliant: An applicable Rono exemptions applied.
 See http://www.diodes.com/quality/lead free.html for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green"

and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

4. For packaging details, go to our website at http://www.diodes.com/products/packages.html.

Marking Information



Code Marking
DF15xxxS = Product Type Marking Code ex: DF1510S
YWW = Date Code Marking
Y = Last Digit of Year (ex: 6 for 2016)
WW = Week Code (01 to 53)

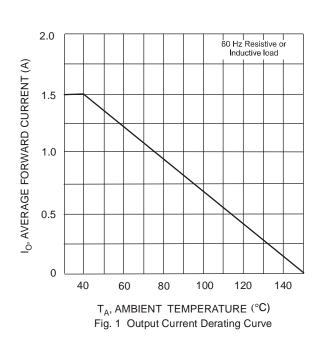


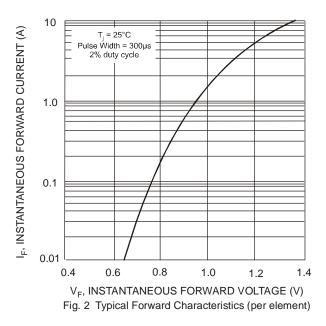
Maximum Ratings and Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

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

Characteristic		Symbol	DF 15005S	DF 1501S	DF 1502S	DF 1504S	DF 1506S	DF 1508S	DF 1510S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	580	700	V
Average Forward Rectified Current	@ T _A = +40°C	lo				1.5				Α
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}				50				А
Forward Voltage (Per Element)	@ I _F = 1.5A	V _{FM}				1.1				V
Peak Reverse Current at Rated DC Blocking Voltage (Per Element)	@ T _A = +25°C @ T _A = +125°C	I _{RM}				10 500				μA
I ² t Rating for Fusing (t<8.3ms)		l ² t	10.4					A ² s		
Typical Total Capacitance per Element (Note 5)		CT	25					pF		
Typical Thermal Resistance, Junction to Ambient (Note 6)		R_{\thetaJA}				40				°C/W
Operating and Storage Temperature Range		TJ, TSTG			-6	5 to +15	0			°C

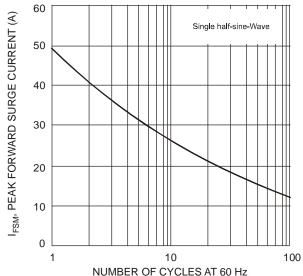
Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
 Thermal resistance, junction to ambient, measured on PC board with 5.0mm² (0.03mm thick) land areas.

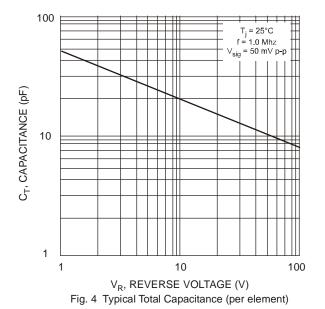




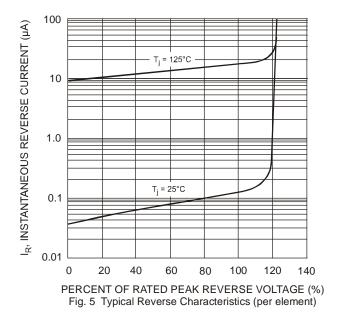


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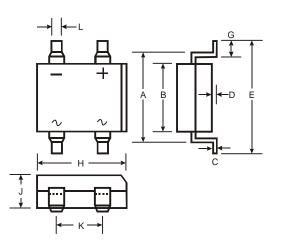
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Forward Surge Current





Package Outline Dimensions

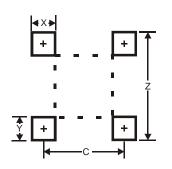
Please see http://www.diodes.com/package-outlines.html for the latest version.



DF-S				
Dim	Min	Max		
Α	7.40	7.90		
в	6.20	6.50		
C	0.22	0.30		
D	0.076	0.33		
E	_	10.40		
G	1.02	1.53		
Н	8.13	8.51		
J	2.40	2.60		
K	5.00	5.20		
L	1.00	1.20		
All Dimensions in mm				

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.



Dimensions	Value		
Dimensions	(in mm)		
Z	10.26		
Х	1.2		
Y	1.52		
С	5.2		

DF-S

DF-S



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