

DF15005S - DF1510S

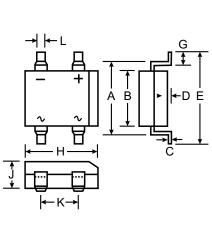
1.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 50A Peak
- Designed for Surface Mount Application
- Plastic Material UL Flammability Classification Rating 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

Mechanical Data

- Case: Molded Plastic
- Terminals: Solder 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



DF-S								
Dim	Min	Max						
Α	7.40	7.90						
в	6.20	6.50						
С	0.22	0.30						
D	0.076	0.33						
Е	_	10.40						
G	1.02	1.53						
н	8.13	8.51						
J	2.40	3.40						
к	5.00	5.20						
L	1.00	1.20						
All Dimensions in mm								

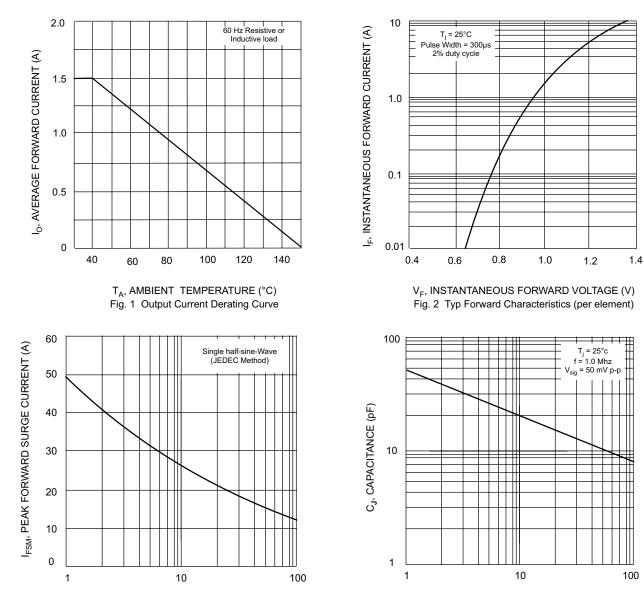
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

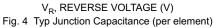
Characteristic		DF 15005S	DF 1501S	DF 1502S	DF 1504S	DF 1506S	DF 1508S	DF 1510S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	580	700	V
Average Forward Rectified Current $@ T_A = 40^{\circ}C$		1.5							Α
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)		50							А
Forward Voltage (per element) @ I _F = 1.5A	V _{FM}	1.1							V
Peak Reverse Current at rated $@$ T _A = 25°CDC blocking voltage (per element) $@$ T _A = 125°C		10 500							μA
I ² t Rating for Fusing (t<8.3ms)		10.4							A ² s
Typical Junction Capacitance per element (Note 1)		25							pF
Typical Thermal Resistance, Junction to Ambient (Note 2)		40							°C/W
Operating and Storage Temperature Range		-65 to +150							°C

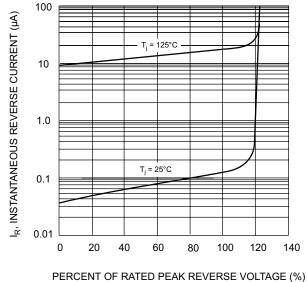
Notes: 1. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

2. Thermal resistance, junction to ambient, measured on PC board with 5.0mn² (0.03mm thick) land areas.



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





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