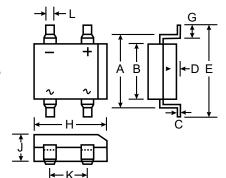


DF15005S - DF1510S

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



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					
E	_	10.40					
G	1.02	1.53					
Н	8.13	8.51					
J	2.40	3.40					
K	5.00	5.20					
L	1.00	1.20					
All Dimensions in mm							

Mechanical Data

Case: Molded Plastic

 Terminals: Solder Plated Leads, Solderable per MIL-STD-202, Method 208

Polarity: As Marked on CaseWeight: 0.38 grams (approx.)

Mounting Position: AnyMarking: Type Number

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

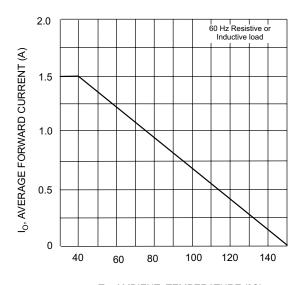
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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°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		1.1						V	
Peak Reverse Current at rated @ T _A = 25°C DC 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 5.0mm (0.03mm thick) land areas.

DS17002 Rev. D-2 1 of 2 DF15005S-DF1510S



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

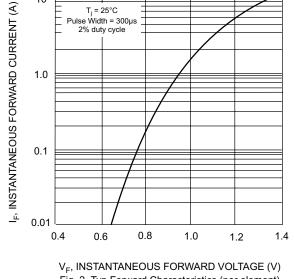
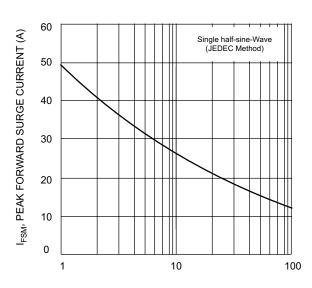
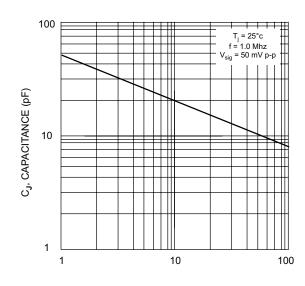


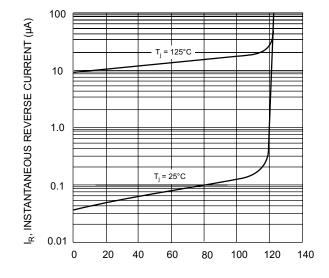
Fig. 2 Typ Forward Characteristics (per element)



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



 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)