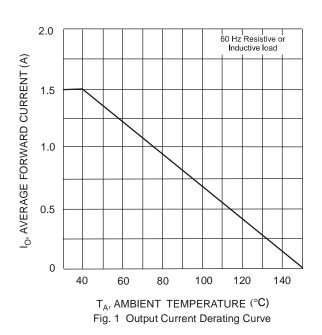


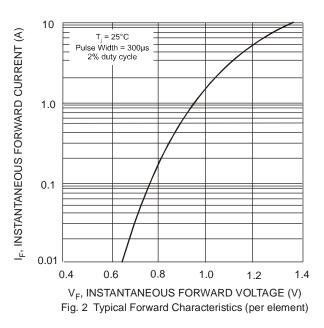
Maximum Ratings and Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

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				А
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	-65 to +150					°C		

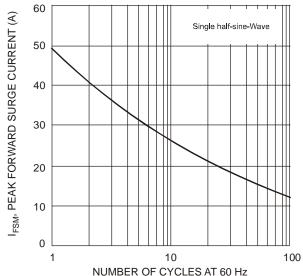
Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
Thermal resistance, junction to ambient, measured on PC board with 5.0mm² (0.03mm thick) land areas.

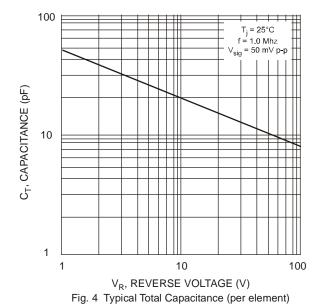




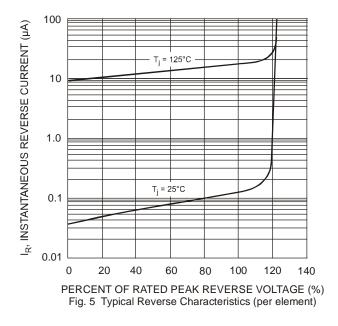


DF15005S - DF1510S





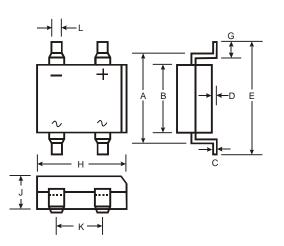
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Forward Surge Current





Package Outline Dimensions

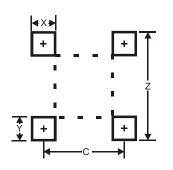
Please see http://www.diodes.com/package-outlines.html for the latest version.



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			
Е		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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