

# **DF20005S thru DF2010S**

Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier
Reverse Voltage 50 and 1000V Forward Current 2.0A

#### **Features**

- Ideal for printed circuit boards
- Applicable for automative insertion
- High surge current capability
- Solder Dip 260°C, 40 seconds

Package: DFS



Schematic Diagram

#### **Mechanical Data**

- Case: DFS
- Epoxy meets UL-94V-0 Flammability rating
- Terminals: Matte tin plated (E3 Suffix) leads, solderable per J-STD-002B and JESD22-B102D
- Polarity: As marked on body

### **Applications**

General purpose use in AC-to-DC bridge full wave rectifications for SMPS, lighting ballasters, adapters, battery chargers, home appliances, office equipment and telecommunication applications.

### **Maximum Ratings & Electrical Characteristics**

Rating at T<sub>A</sub>=25°C unless otherwise specified

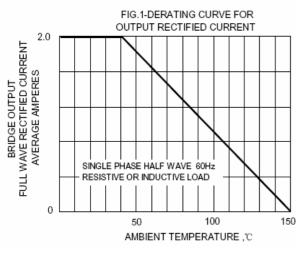
Parameter	Symbol	DF20005S	DF2001S	DF2002S	DF2004S	DF2006S	DF2008S	DF2010S	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current at $T_A$ =40	I <sub>F(AV)</sub>	2.0							
Peak Forward Surge Current Single Sine-Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	60							
Rating for Fusig (t<8.3ms)	l <sup>2</sup> t	10							
Maximum Instantaneous Forward Voltage Drop per Leg at 2A	VF	1.20							
Maximum DC Reverse Current at $T_A=25$ °C Rated DC Blocking Voltage per Leg $T_A=125$ °C	lR				5 500				μΑ
Typical Junction Capacitance per Element at 4.0V,1MHz	Cj	25							pF
Operating Junction Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							

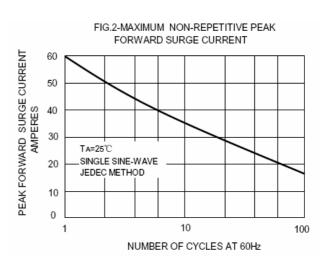


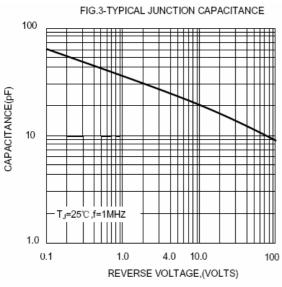
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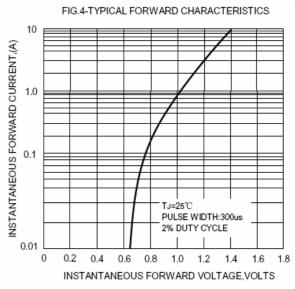
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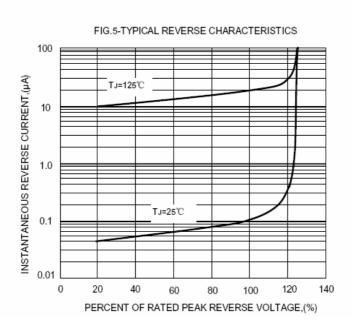
## Ratings and Characteristics Curves (T<sub>A</sub> = 25°C unless otherwise noted)









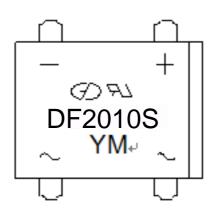




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### **Marking**



#### DATE CODE

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Code	9	Α	В	С	D	Е	F	G	Н	J	K	0
Month	1	2	3	4	5	6	7	8	9	10	11	12
Code	1	2	3	4	5	6	7	8	9	0	N	D

# **Package Outline Dimensions**

