

DB201S thru DB207S

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

Mechanical Data

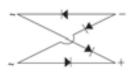
- Case: DFS
- Epoxy meets UL-94V-0 Flammability rating
- Terminals: Matte tin plated (E3 Suffix) leads, solderable per J-STD-002B
 - and JESD22-B102D
- Polarity: As marked on body



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.



Package: DFS



Schematic Diagram

Maximum Ratings & Electrical Characteristics

(T_A=25°C unless otherwise noted)

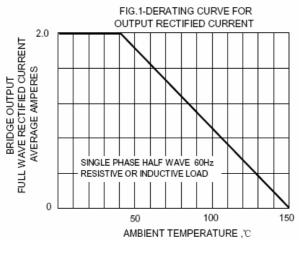
Parameter	Symbol	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current at T _A =40	$I_{F(AV)}$	2.0							
Peak Forward Surge Current Single Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	60							А
Rating for Fusig (t<8.3ms)	l ² t	10							A ² sec
Maximum Instantaneous Forward Voltage Drop per Leg at 2A	VF				1.20				V
Maximum DC Reverse Current at $T_A=25^{\circ}$ C Rated DC Blocking Voltage per Leg $T_A=125^{\circ}$ 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 _{STG}	-55 to +150							°C

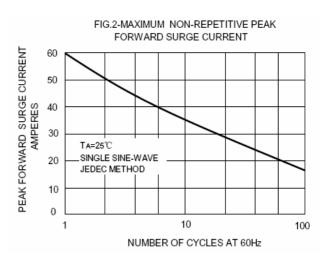


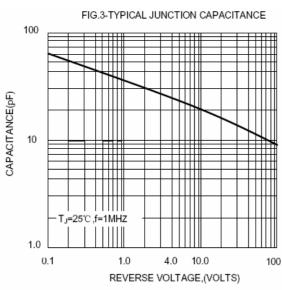
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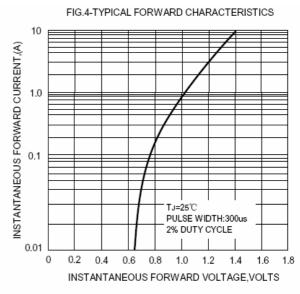
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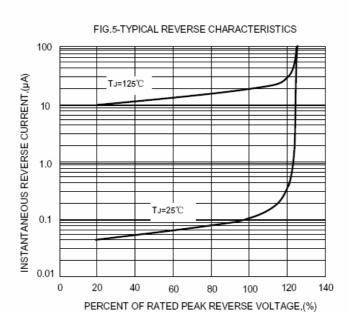
Ratings and Characteristics Curves (T_A = 25°C unless otherwise noted)









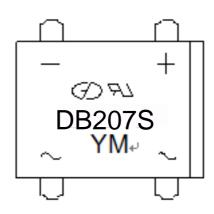




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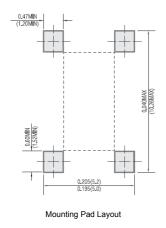
Marking

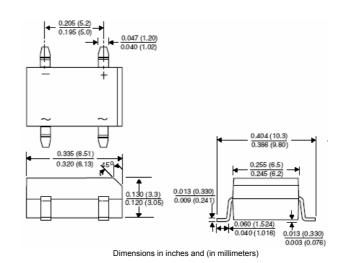


DATE CODE

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
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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





3/3 Doc.USDB2XXSx3.1 www.goodarksemi.com