

DB201S thru DB207S

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

Features

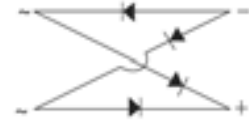
- Ideal for printed circuit boards
- Applicable for automotive insertion
- High surge current capability
- Solder Dip 260°C, 40 seconds



Package: DFS

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



Schematic Diagram

Applications

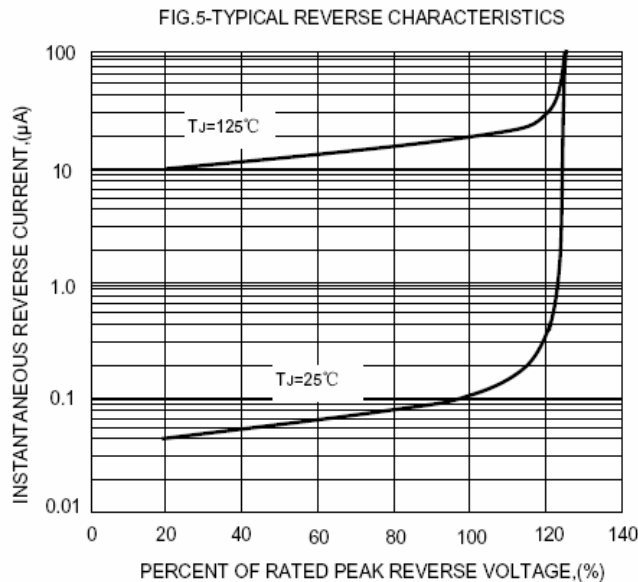
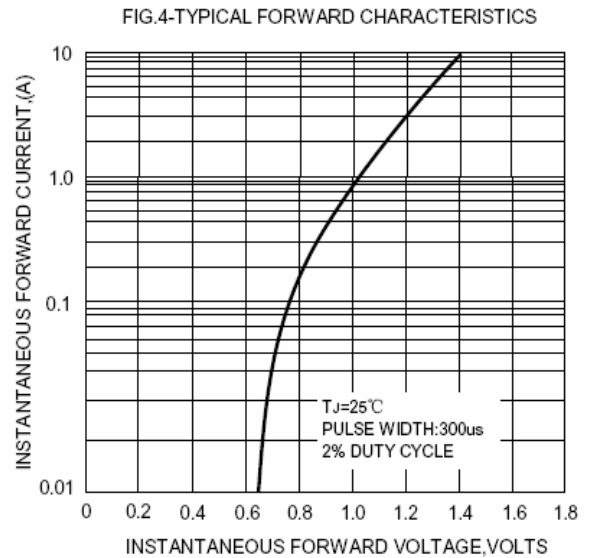
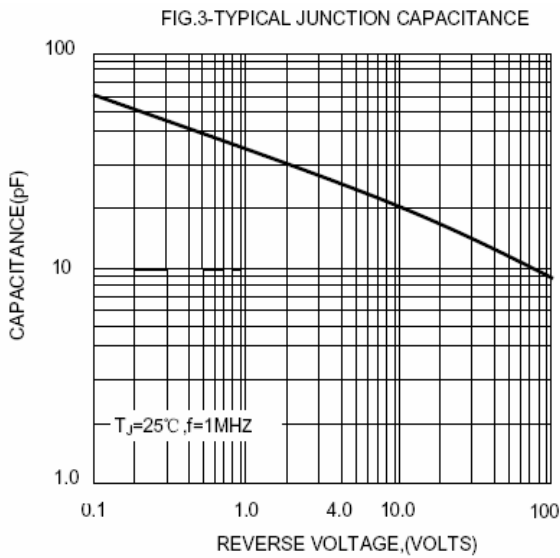
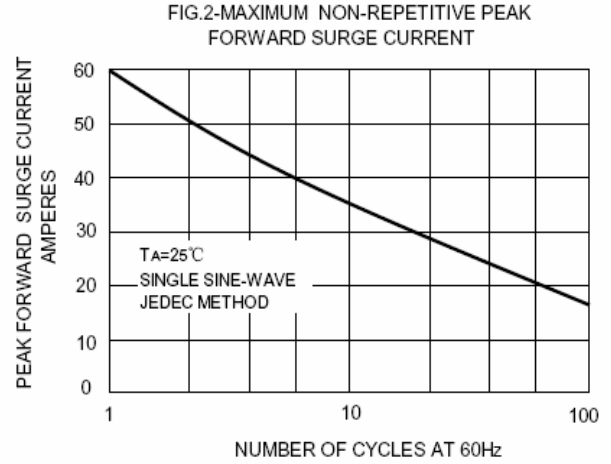
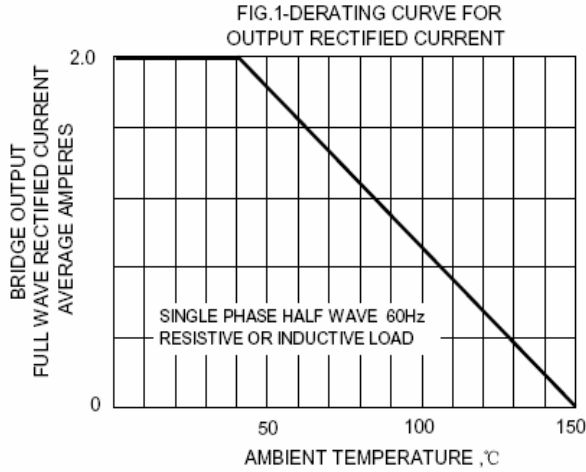
General purpose use in AC-to-DC bridge full wave rectifications for SMPS, lighting ballasters, adapters, battery chargers, home appliances, office equipment and telecommunication applications.

Maximum Ratings & Electrical Characteristics

($T_A=25^\circ\text{C}$ 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							A
Peak Forward Surge Current Single Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	60							A
Rating for Fusig ($t<8.3\text{ms}$)	I^2t	10							A^2sec
Maximum Instantaneous Forward Voltage Drop per Leg at 2A	V_F	1.20							V
Maximum DC Reverse Current at $T_A=25^\circ\text{C}$	I_R	5							μA
Rated DC Blocking Voltage per Leg $T_A=125^\circ\text{C}$		500							
Typical Junction Capacitance per Element at 4.0V, 1MHz	C_j	25							pF
Operating Junction Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

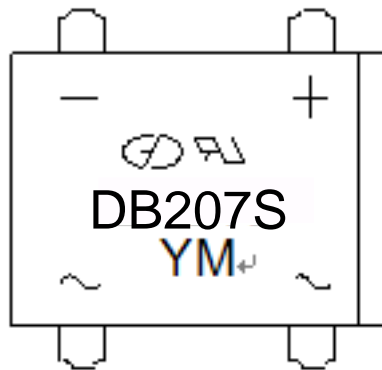
Ratings and Characteristics Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)



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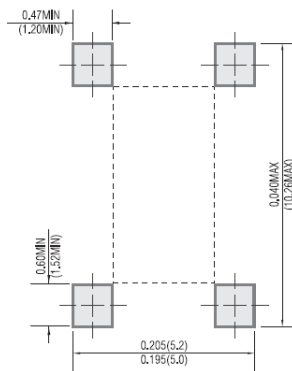
Marking



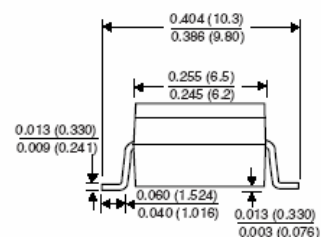
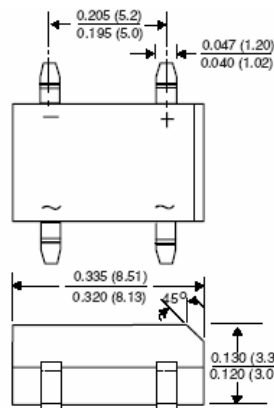
DATE CODE

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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	O	N	D

Package Outline Dimensions



Mounting Pad Layout



Dimensions in inches and (in millimeters)