

# DB201 thru DB207

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

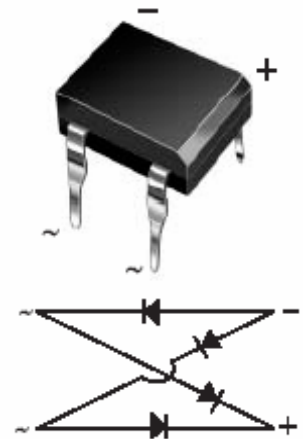
## Features

- Ideal for automated placement
- Applicable for automotive insertion
- High surge current capability
- Solder Dip 260°C, 10 seconds

## Mechanical Data

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

Package: DFM



Schematic Diagram

## Typical Applications

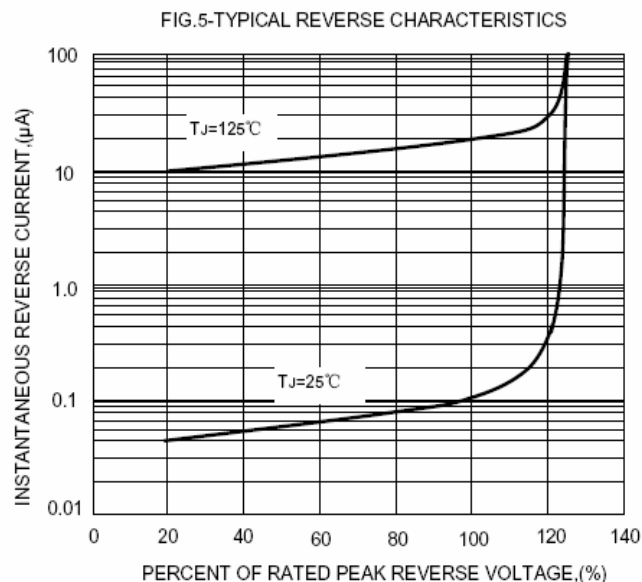
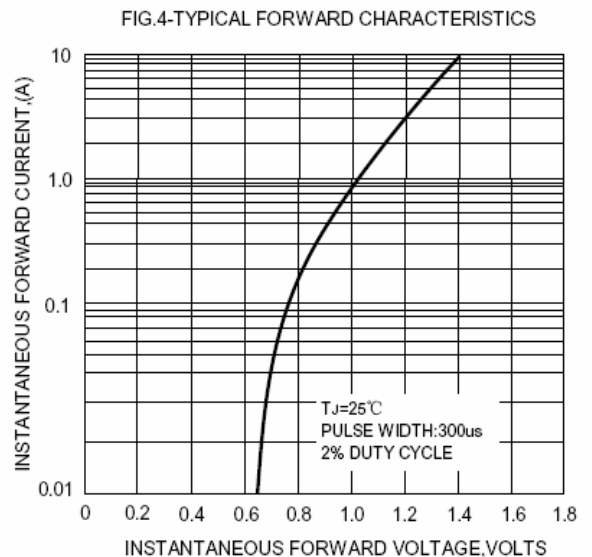
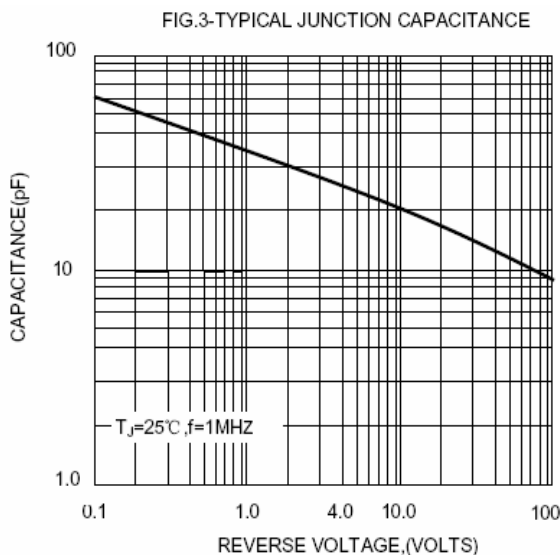
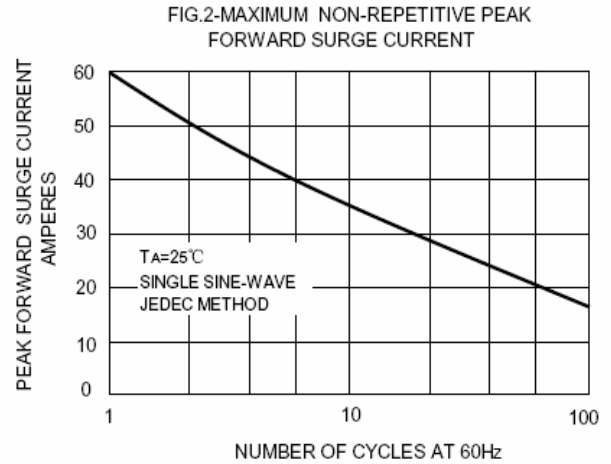
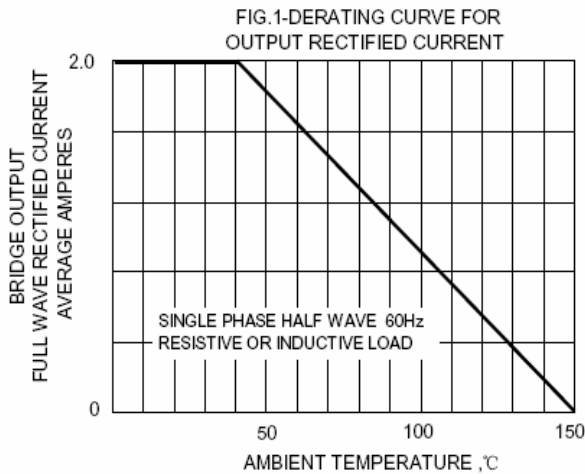
General purpose use in AC-to-DC bridge full wave rectifications for SMPS, Lighting Ballasters, Adapters, Battery Chargers, Home Appliances, Office Equipment and Telecommunication applications.

## Maximum Ratings & Electrical Characteristics

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

Parameter	Symbol	DB201	DB202	DB203	DB204	DB205	DB206	DB207	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							$\text{A}^2\text{sec}$
Maximum Instantaneous Forward Voltage Drop per Leg at 2A	$V_F$	1.20							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Leg	$I_R$	5							$\mu\text{A}$
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							$^{\circ}\text{C}$

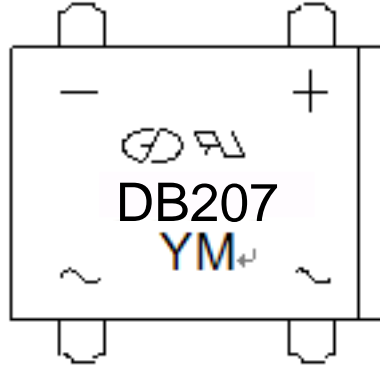
## Ratings and Characteristics Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)



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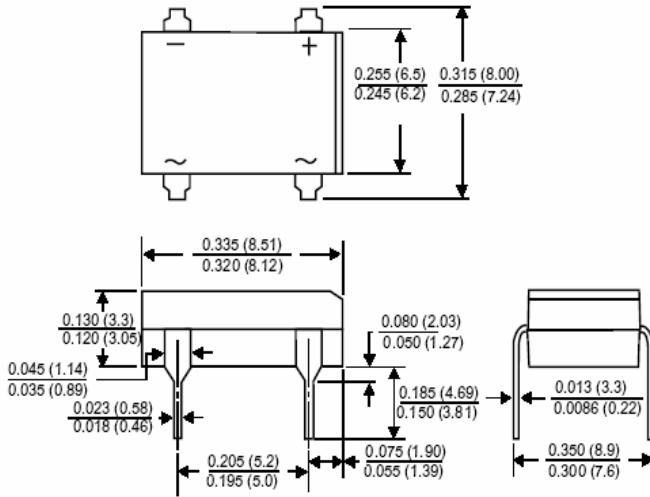
## Marking



### DATE CODE

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Code	9	A	B	C	D	E	F	G	H	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	O	N	D

## Package Outline Dimensions



Dimensions in inches and (in millimeters)