

**Glass Passivated Bridge Rectifiers**  
**Reverse Voltage 50 to 1000 Volts Forward Current 2.0 Amperes**

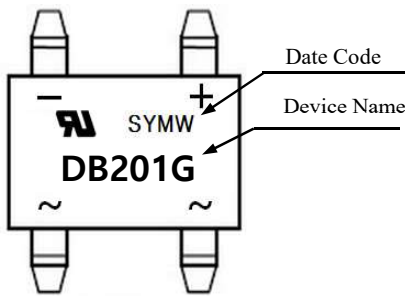
**Features**

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- High temperature soldering guaranteed : 260°C / 10 seconds at 5 lbs., ( 2.3 kg ) tension
- Leads solderable per MIL-STD-202 Method 208

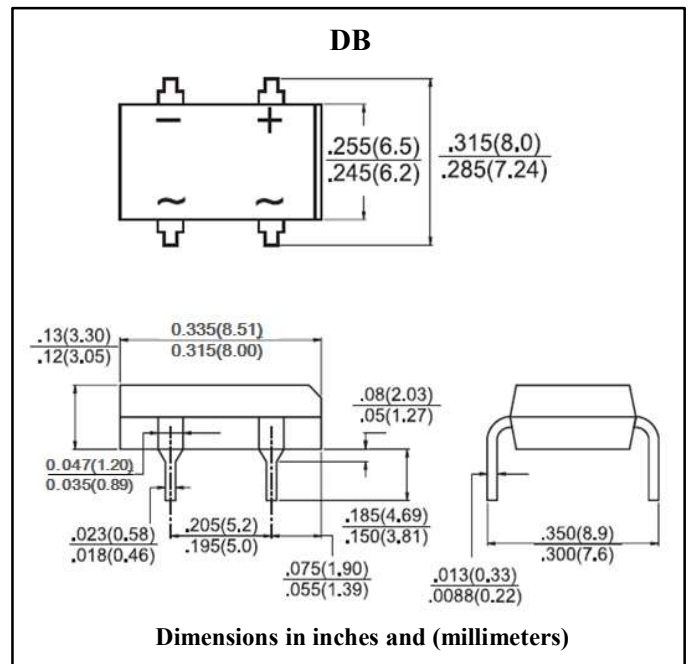
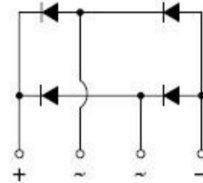
**Mechanical Data**

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminal : Matte tin plated leads, solderable per JESD22-B102, Meet JESD 201 class 1A whisker test
- Polarity Polarity as marked on the body
- Weight : 0.36 gram (approximately)

**Marking**



**Equivalent Circuit**



**Maximum Ratings & Electrical Characteristics (Ta =25°C Unless otherwise specified)**

Parameter	Symbol	DB 201G	DB 202G	DB 203G	DB 204G	DB 205G	DB 206G	DB 207G	Unit	Remark
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	
Average Forward Rectified Current	$I_O$	2.0							A	
Peak Forward Surge Current, Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	60							A	
Rating for Fusing (t<8.3ms)	$I^2t$	10							A <sup>2</sup> sec	
Maximum Instantaneous Forward Voltage at 2.0A	$V_F$	1.2							V	
Maximum DC Reverse Current at rated DC Blocking Voltage per leg	$I_R$	5.0							uA	Ta=25 °C
		500							uA	Ta=125 °C
Typical Thermal Resistance	Rth(j-a)	40							°C/W	Note 1
	Rth(j-l)	15								
Operation Junction Temperature Range	$T_J$	-55 to +150							°C	
Storage Temperature Range	$T_{STG}$	-55 to +150							°C	

Note 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.4" x 0.4"(10mm x 10mm) Copper pads.



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

Fig.1 Forward Current Derating Curve

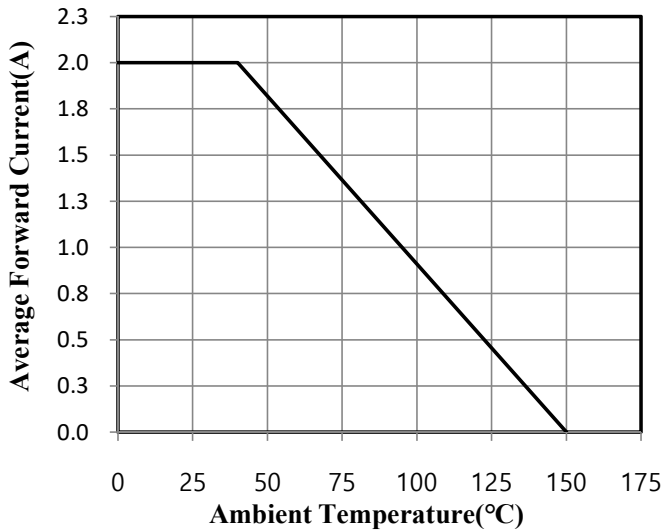


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

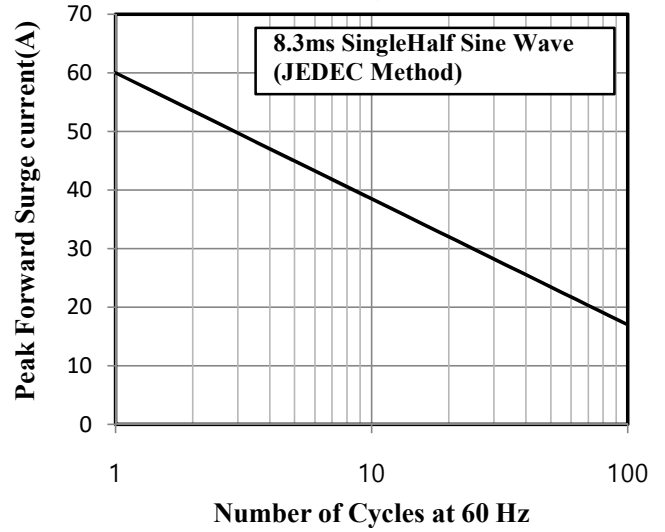


Fig.3 Typical Instantaneous Forward Characteristics

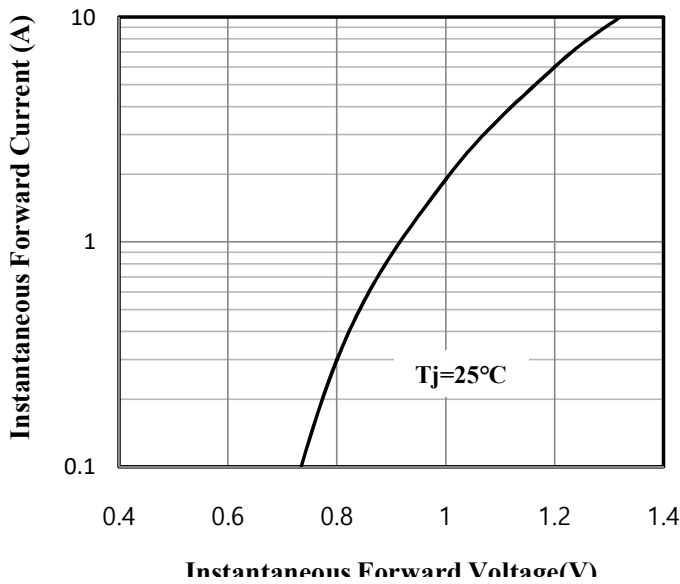


Fig.4 Typical Junction Capacitance

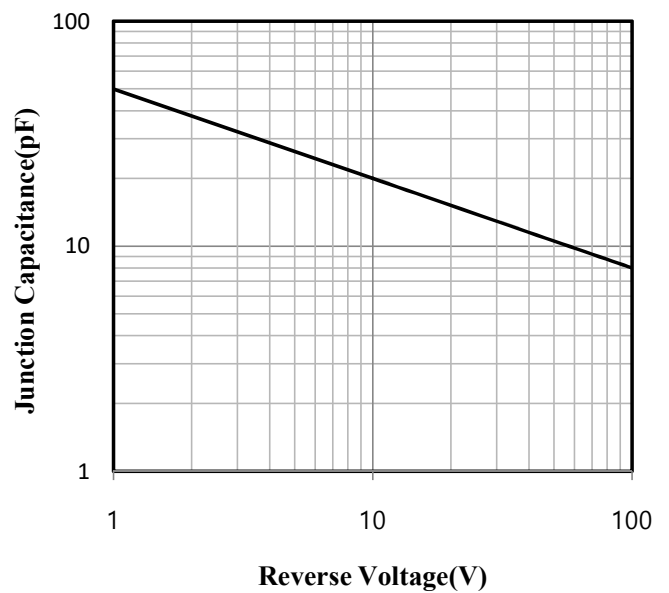


Fig.5 Typical Reverse Characteristics

