

## Glass Passivated Bridge Rectifiers

### Reverse Voltage 50 to 1000 Volts Forward Current 2.0 Amperes

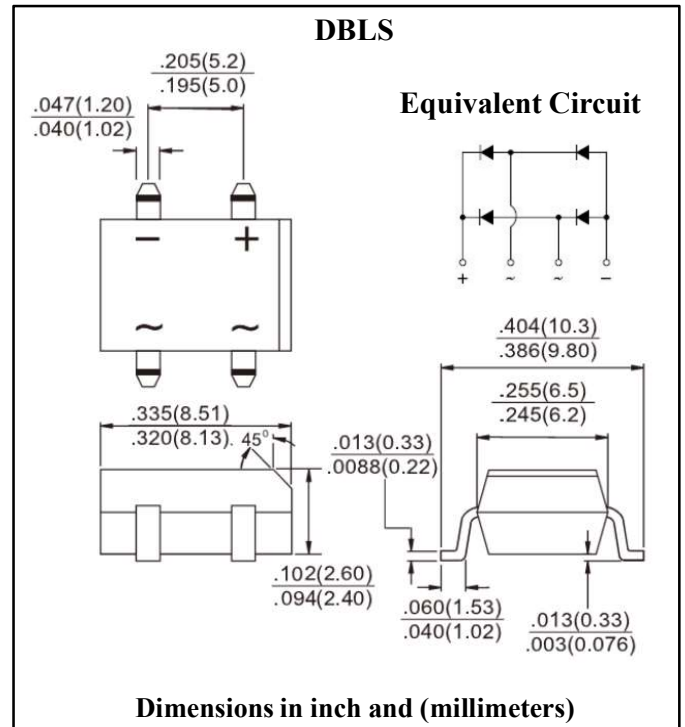
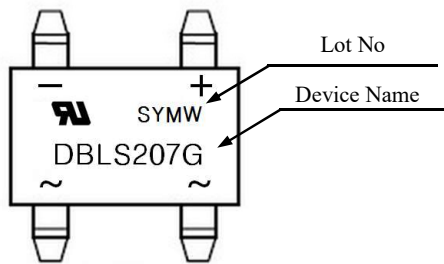
#### Features

- 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
- Small size, simple installation
- 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



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

Parameter	Symbol	DBLS 201G	DBLS 202G	DBLS 203G	DBLS 204G	DBLS 205G	DBLS 206G	DBLS 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, 60Hz Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	60							A	
Current Squared Time	$I^2t$	15							A <sup>2</sup> S	Note 1
Maximum Instantaneous Forward Voltage at 2.0A	$V_F$	1.1							V	
Maximum DC Reverse Current at $V_{RRM}$	$I_R$	10.0							uA	
Typical Thermal Resistance	Rth(j-a)	68							°C/W	Note 2
	Rth(j-l)	15							°C/W	Note 3
Operation Junction Temperature Range	$T_J$	-55 to +150							°C	
Storage Temperature Range	$T_{STG}$	-55 to +150							°C	

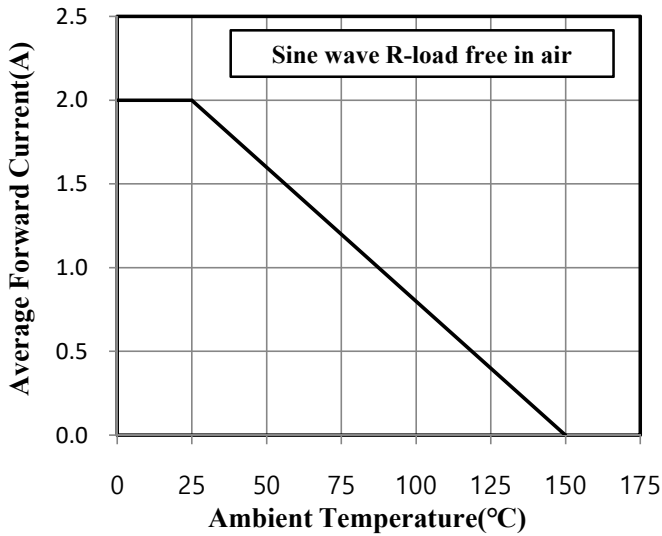
Note 1. Test Conditions : 1ms ≤ t < 8.3ms Tj = 25°C, Rating of per Diode

Note 2. Between junction and ambient, On glass-epoxy substrate

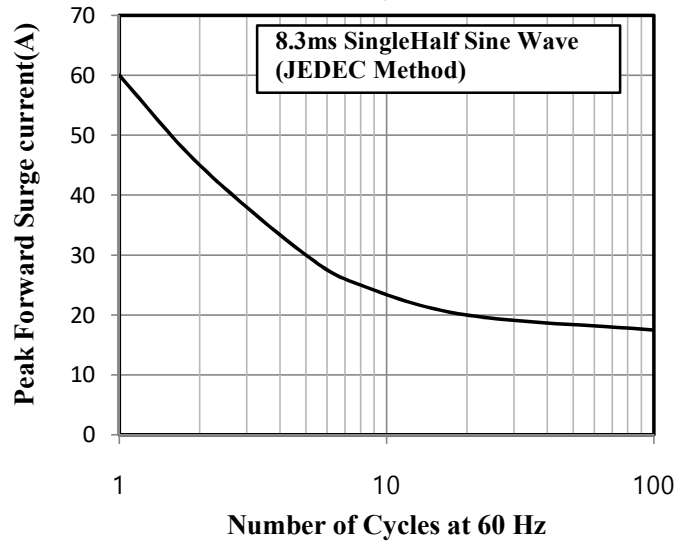
Note 3. Between junction and lead

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

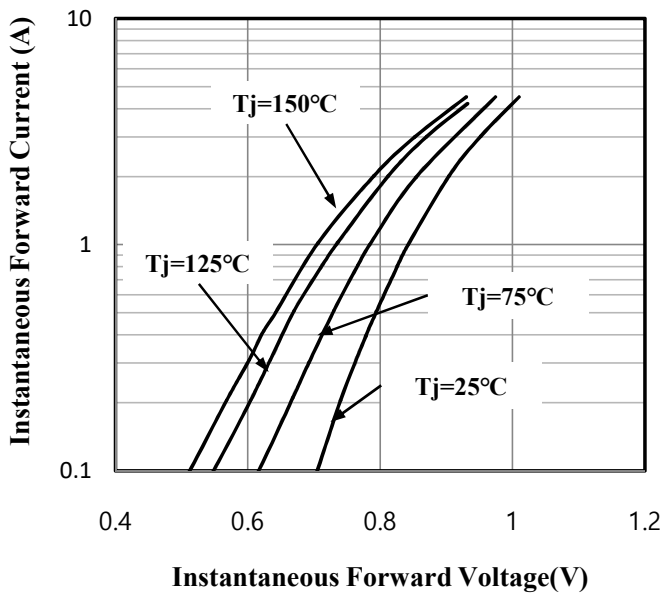
**Fig.1 Forward Current Derating Curve**



**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Reverse Characteristics**

