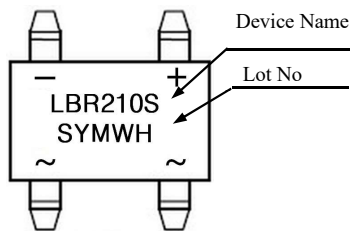
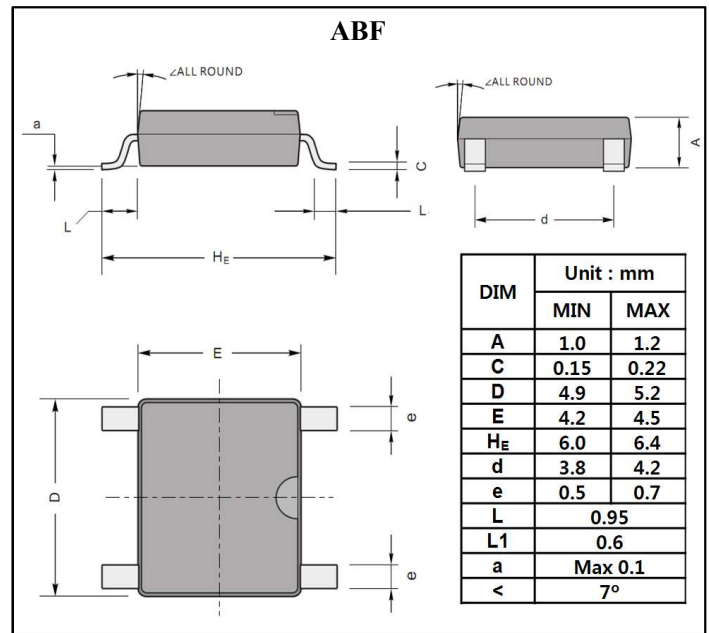
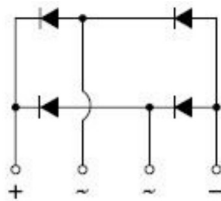


Surface Mount Glass Passivated Fast Recovery Bridge Rectifiers
Reverse Voltage 100 to 1000 Volts Forward Current 2.0 Amperes
Features

- Glass passivated junction chip
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Body thickness very thin <1.3mm
- Low forward voltage drop
- Surge overload rating to 70A peak
- In compliance with EU RoHS 2002/95/EC directives
- Plastic material used carries underwriters laboratory classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

Mechanical Data

- Case : ABF, Molded plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : As marked on case
- Marking : Type number
- Weight : 0.09 grams (Approx.)

Marking

Equivalent Circuit

Maximum Ratings & Electrical Characteristics (If not specified Ta =25°C)

Parameter	Symbol	LBR 201S	LBR 202S	LBR 204S	LBR 206S	LBR 208S	LBR 210S	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current	I _O	2.0						A	
Peak Forward Surge Current (60Hz sine wave, Non-repetitive 1 cycle peak value, T _J =25°C)	I _{FSM}	70						A	
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	1.3						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0						uA	Ta=25°C
		50						uA	Ta=125°C
Typical Junction Capacitance	C _J	30						pF	Note 1
Maximum Reverse Recovery Time	trr	500						ns	Note 2
Operation Junction Temperature Range	T _J	-55 to +150						°C	
Storage Temperature Range	T _{STG}	-55 to +150						°C	

Note 1. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 2. Measured with I_F=0.5A, I_R=1A, Irr=0.25A



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

Fig.1 Forward Current Derating Curve

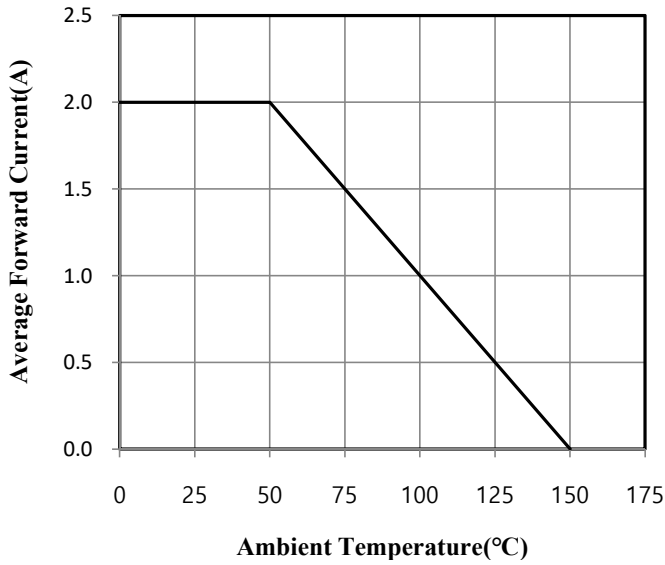


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

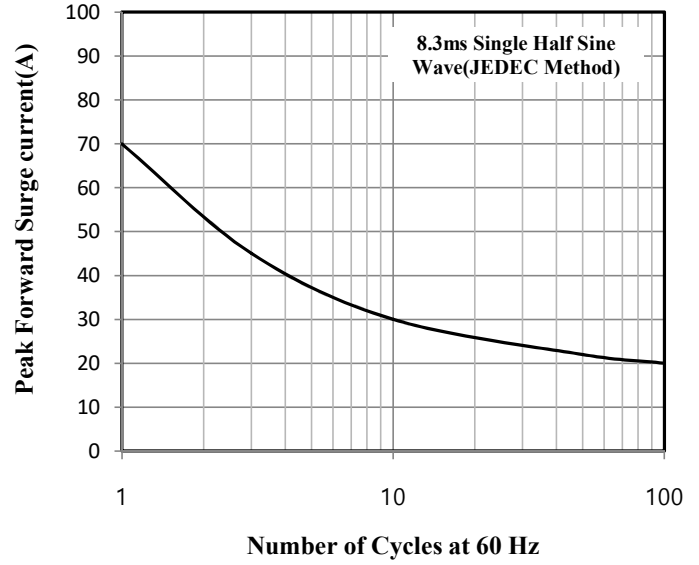


Fig.3 Typical Instantaneous Forward Characteristics

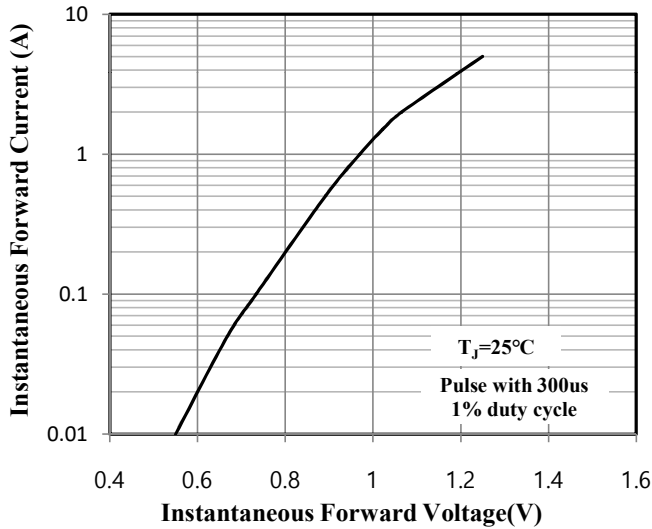


Fig.4 Typical Junction Capacitance

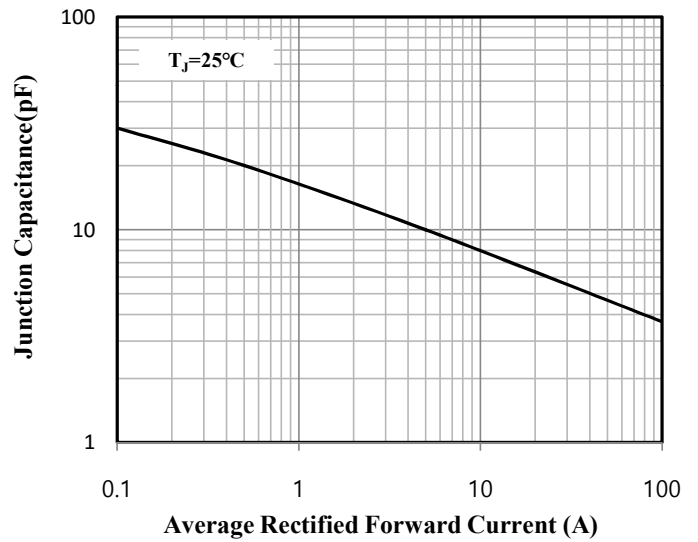


Fig.5 Typical Reverse Characteristics

