



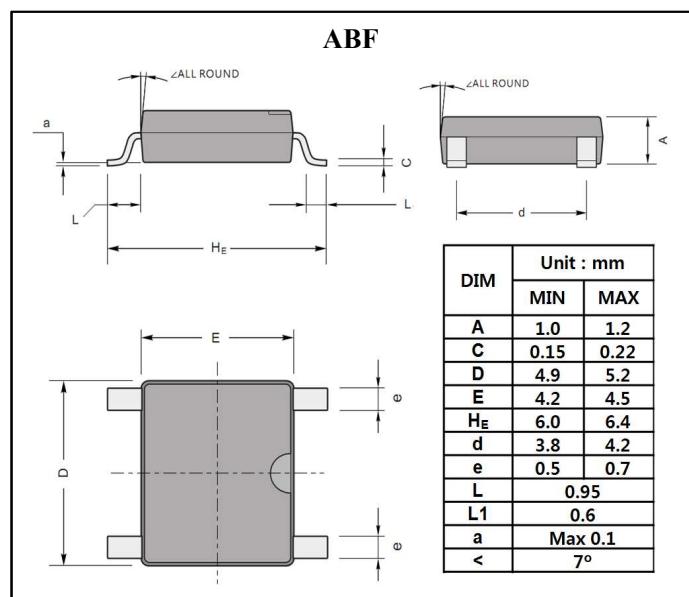
**Micro Surface Mount Glass Passivated Single-Phase Bridge Rectifiers**  
**Reverse Voltage 100 to 1000 Volts Forward Current 1.0 Ampere**

**Features**

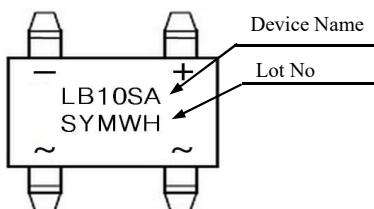
- Glass passivated junction chip
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Body thickness very thin <1.3mm
- Low forward voltage drop
- Surge overload rating to 50A peak
- In compliance with EU RoHS 2002/95/EC directives
- Plastic material used carries underwriters laboratory classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

**Mechanical Data**

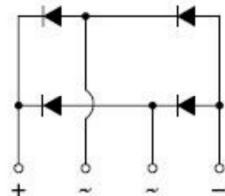
- Case : ABF, Molded plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : As marked on case
- Marking : Type number
- Weight : 0.090 grams (Approx.)



**Marking**



**Equivalent Circuit**

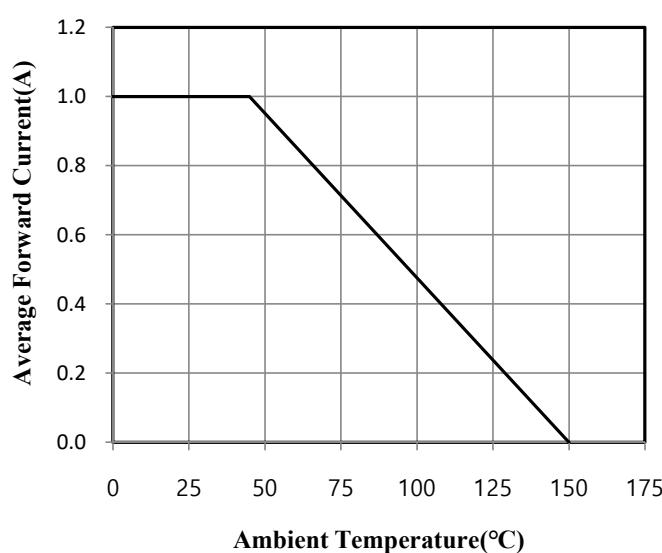
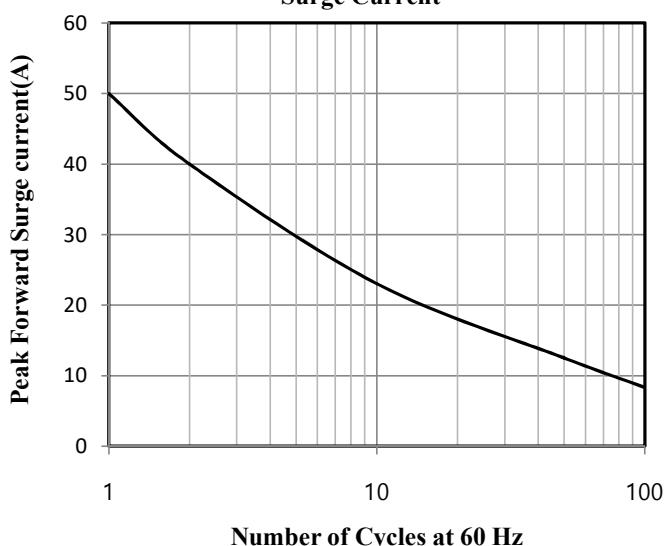
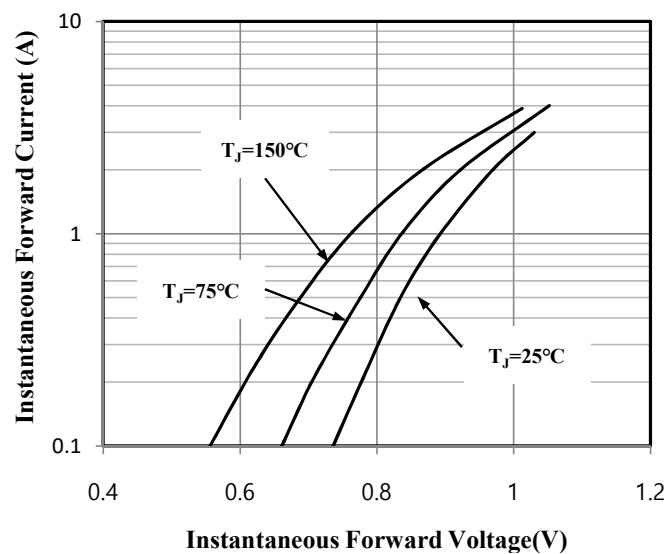
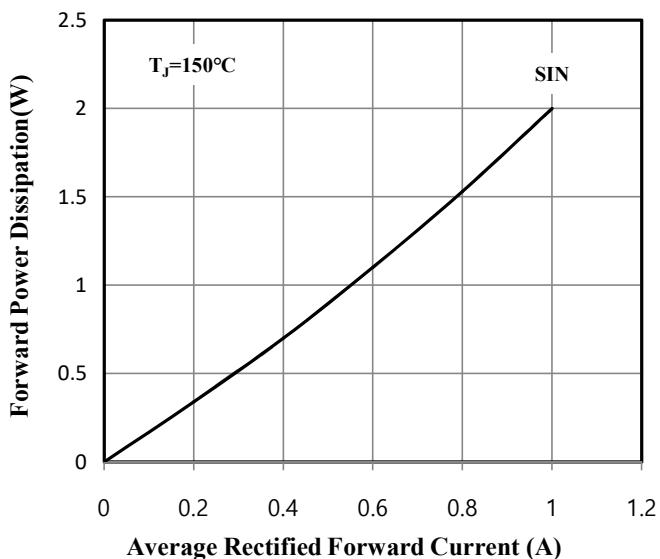


**Maximum Ratings & Electrical Characteristics (If not specified Ta =25°C)**

Parameter	Symbol	LB1SA	LB2SA	LB4SA	LB6SA	LB8SA	LB10SA	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current (60Hz sine wave,R-load, Ta=25°C On FR-4 P.C.B Board)	I <sub>O</sub>						1.0	A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>						50	A	
I <sup>2</sup> t Rating for fusing(t<8.3ms)	I <sup>2</sup> t						3.735	A <sup>2</sup> S	
Maximum Instantaneous Forward Voltage @ 1.0A	V <sub>F</sub>						1.0	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>						10.0	uA	Ta=25°C
Typical Junction Capacitance	C <sub>J</sub>						10.0	pF	Note 1
Typical Thermal Resistance	R <sub>th(j-l)</sub>						25	°C /W	Note 2
	R <sub>th(j-a)</sub>						80	°C /W	
Operation Junction Temperature Range	T <sub>J</sub>						-55 to +150	°C	
Storage Temperature Range	T <sub>STG</sub>						-55 to +150	°C	

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

Note 2. Mounted on FR-4 P.C.B Board

**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 Forward Power Dissipation**

**Fig.5 Typical Reverse Characteristics**
