



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

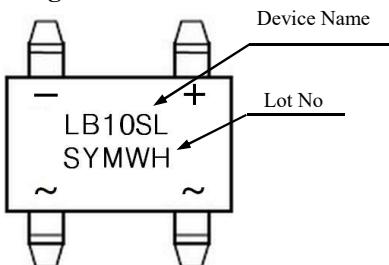
Features

- 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 30A 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

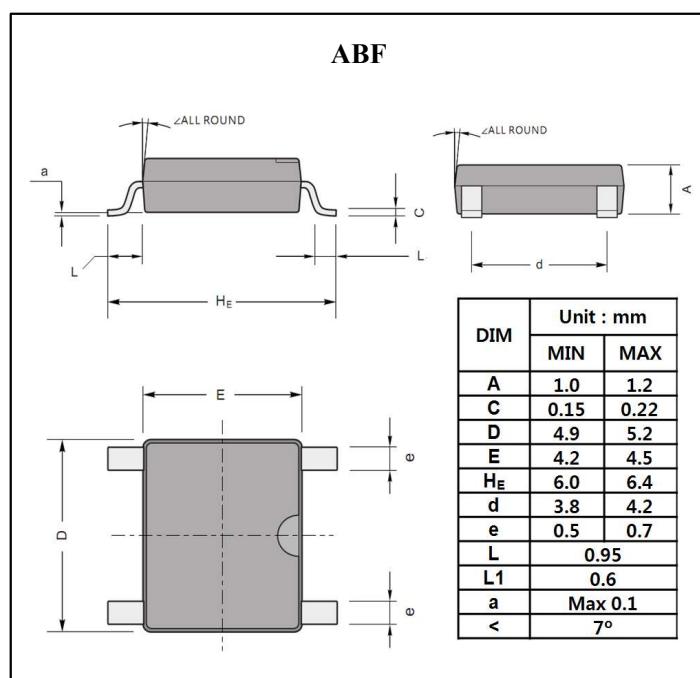
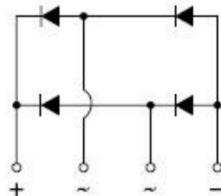
Mechanical Data

- 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

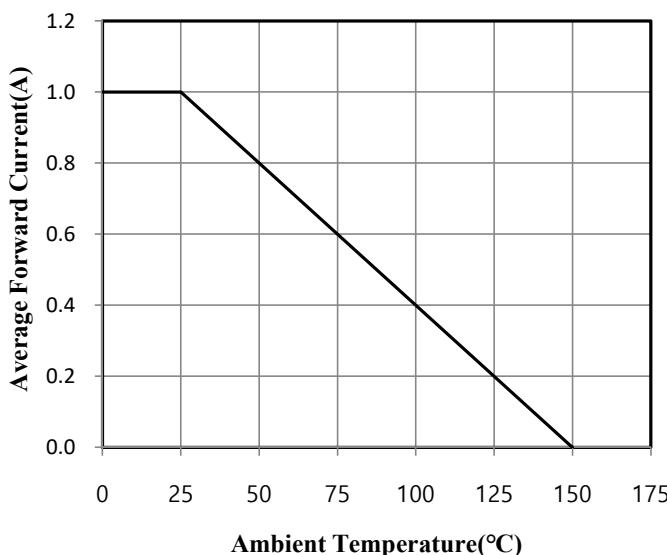
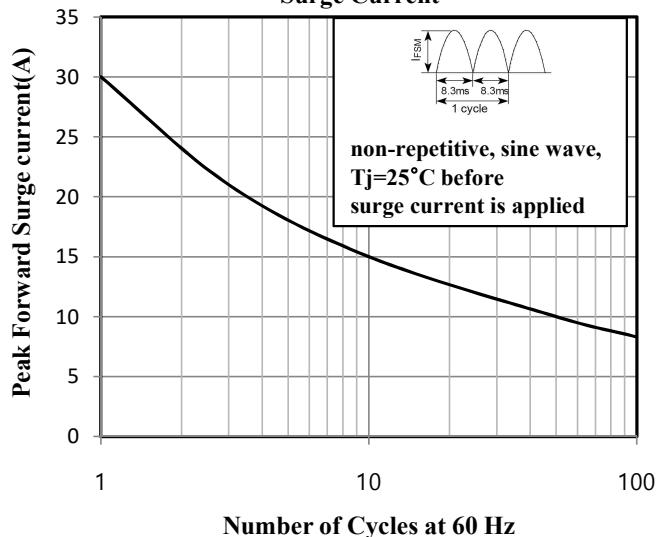
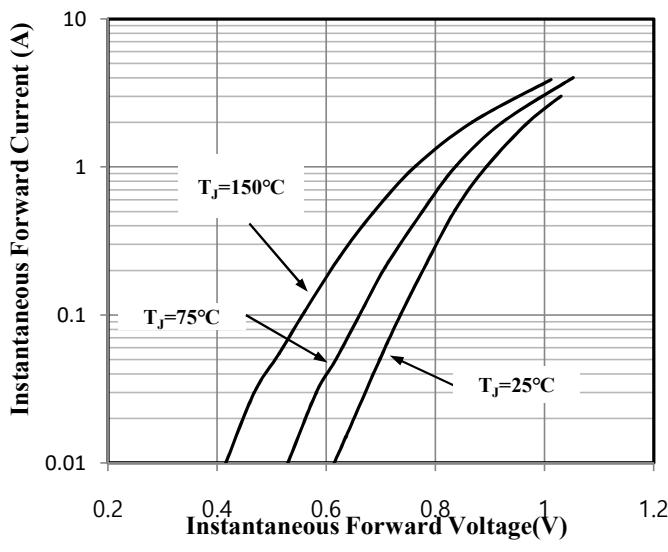
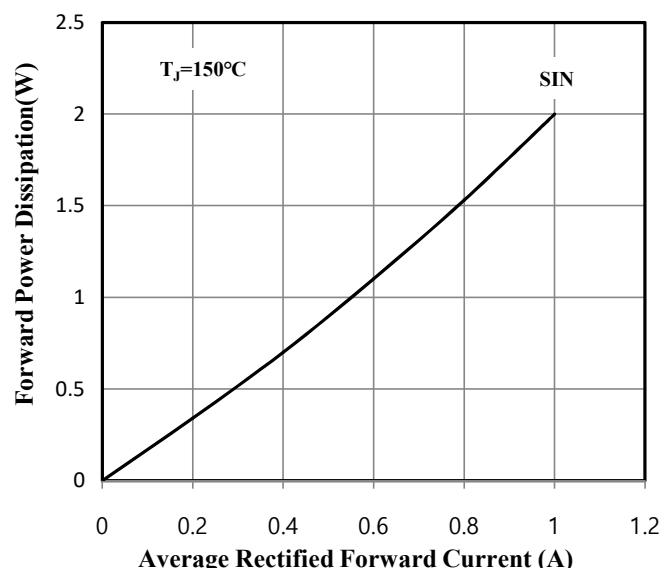


Maximum Ratings & Electrical Characteristics (If not specified Ta =25°C)

Parameter	Symbol	LB1SL	LB2SL	LB4SL	LB6SL	LB8SL	LB10SL	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 (60Hz sine wave, R-load, Ta=25°C On FR-4 P.C.B Board)	I _O						1.0	A	
Peak Forward Surge Current (60Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C)	I _{FSM}						30	A	
I ² t Rating for fusing(t<8.3ms)	I ² t						3.735	A ² S	
Maximum Instantaneous Forward Voltage @ 1.0A	V _F						1.0	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R						10.0	uA	Ta=25°C
Typical Junction Capacitance	C _J						10.0	pF	Note 1
Typical Thermal Resistance	R _{th(j-l)}						25	°C /W	Note 2
	R _{th(j-a)}						80	°C /W	
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. 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
