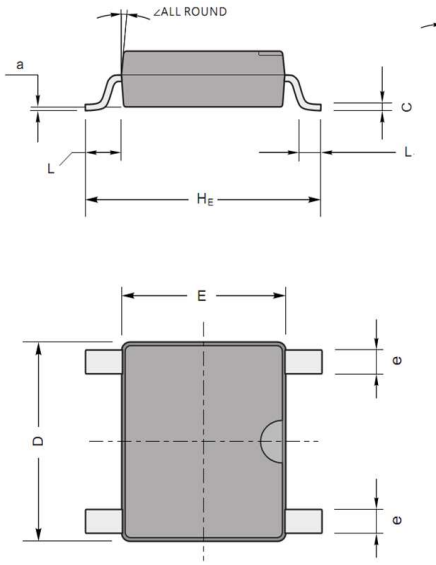
Surface Mount Glass Passivated Fast Recovery Bridge Rectifier
Reverse Voltage 1000 Volts, Forward Current 1.0 Ampere

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 60A peak
- Plastic material used carries underwriters laboratory classification 94V-O
- High temperature soldering : 260℃ /10 seconds at terminals

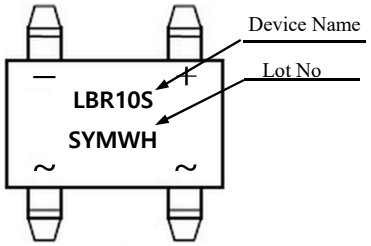
Mechanical Data
- Case : ABF, Molded plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : As marked on case
- Marking : Type number
- Weight : 0.09 grams (Approx.)

ABF

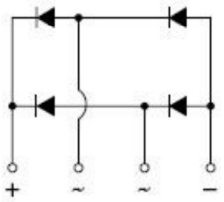


DIM	Unit : mm	
	MIN	MAX
A	1.0	1.2
C	0.15	0.22
D	4.9	5.2
E	4.2	4.5
H_E	6.0	6.4
d	3.8	4.2
e	0.5	0.7
L	0.95	
L1	0.6	
a	Max 0.1	
<	7°	

Marking



Equivalent Circuit



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

Parameter	Symbol	LBR10S	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V	
Maximum RMS Voltage	V_{RMS}	700	V	
Maximum DC Blocking Voltage	V_{DC}	1000	V	
Maximum Average Forward Rectified Current	I_O	1.0	A	
Peak Forward Surge Current (60Hz sine wave, Non-repetitive 1 cycle peak value, T_J=25℃)	I_{FSM}	30	A	
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.3	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5.0	uA	Ta=25℃
		50	uA	Ta=125℃
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	℃	
Storage Temperature Range	T_{STG}	-55 to +150	℃	

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

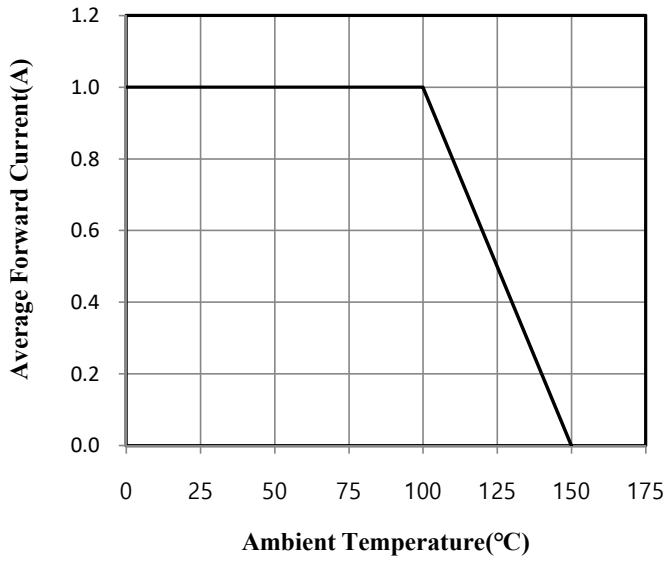


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

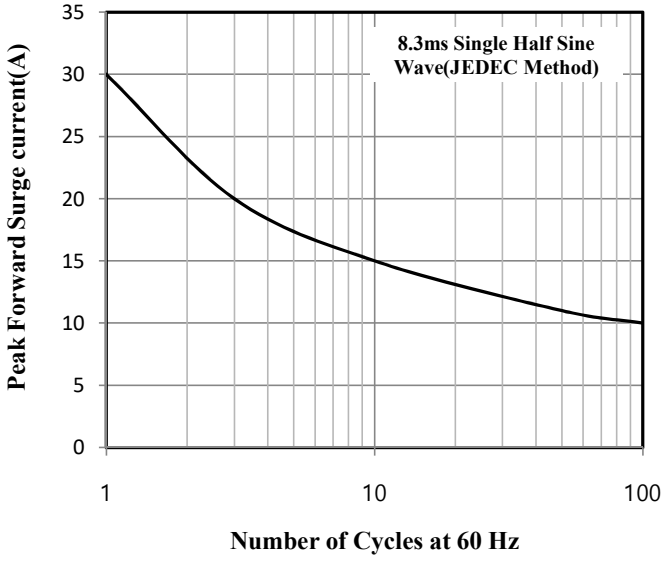


Fig.3 Typical Instantaneous Forward Characteristics

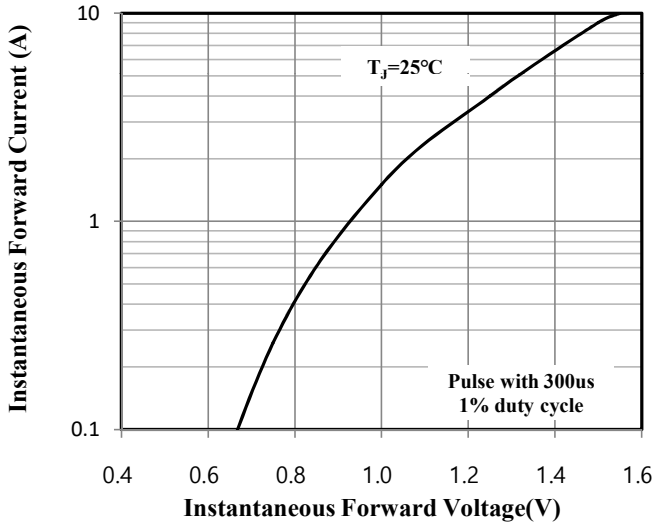


Fig.4 Typical Junction Capacitance

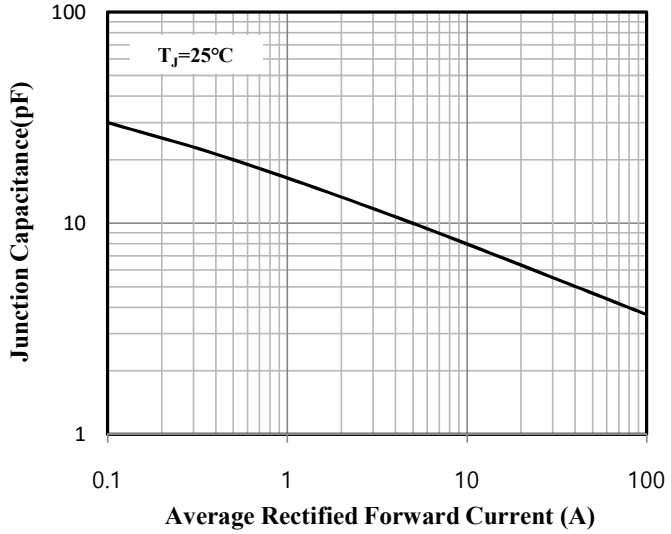


Fig.5 Typical Reverse Charateristics