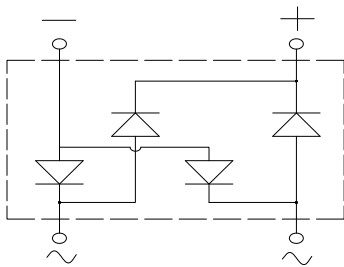
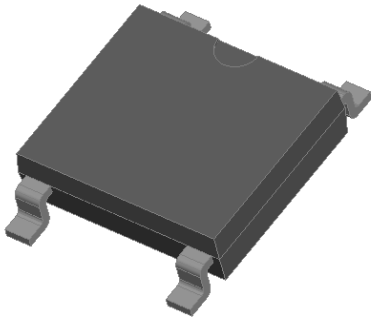


Bridge Rectifiers



Features

- UL recognition, file #E313149
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

- **Package:** ABS
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	LLB02	LLB04	LLB06	LLB08	LLB10
Device marking code			LLB02	LLB04	LLB06	LLB08	LLB10
Repetitive peak reverse voltage	VRRM	V	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Ta=40°C, on Alumina Substrate	IO	A	0.8				
Surge(non-repetitive)forward current @60 Hz half sine wave, 1 cycle, Tj=25°C	IFSM	A	30				
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I ² t	A ² s	3.7				
Storage temperature	Tstg	°C	-55 ~+150				
Junction temperature	Tj	°C	-55 ~+150				

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	LLB02	LLB04	LLB06	LLB08	LLB10
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=0.4A	1.00				
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	5				

■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	LLB02	LLB04	LLB06	LLB08	LLB10
Thermal Resistance	Between junction and ambient, On alumina substrate	RθJ-A	°C/W	62.5			
	Between junction and lead	RθJ-L		25.0			



LLB02 THRU LLB10

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
LLB02 THRU LLB10	F1	Approximate 0.095	4000	8000	64000	13" reel
LLB02 THRU LLB10	F5	Approximate 0.095	5000	10000	80000	13" reel

Characteristics (Typical)

FIG1:Io-Ta Curve

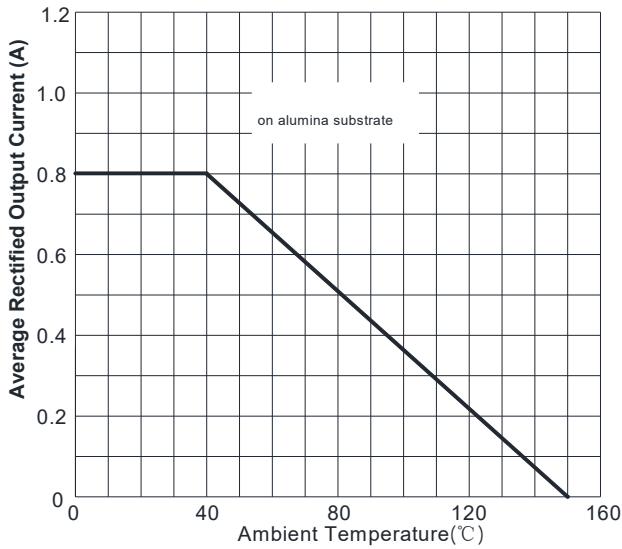


FIG2: Surge Forward Current Capability

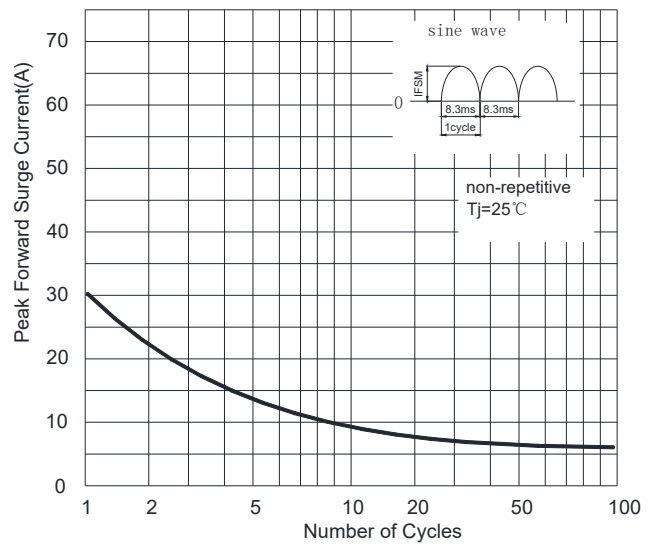


FIG3: Forward Voltage

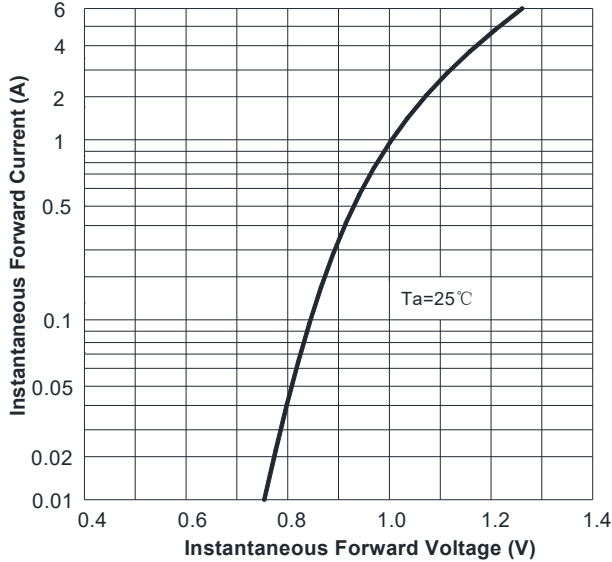
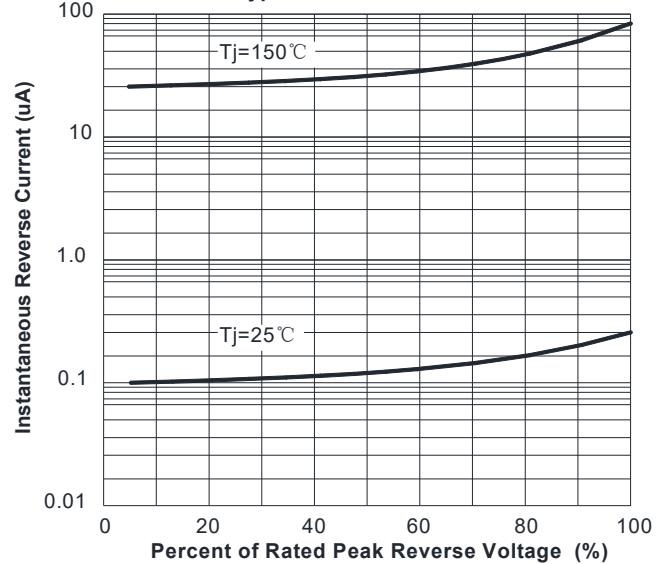


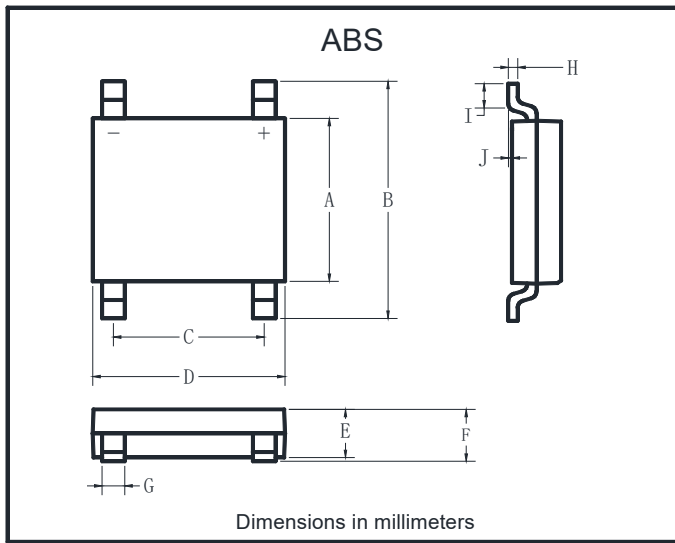
FIG4: Typical Reverse Characteristics





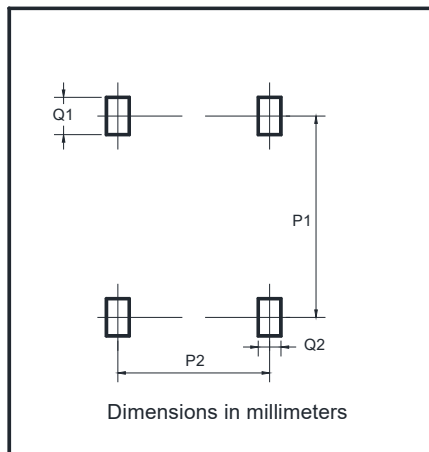
LLB02 THRU LLB10

■ Outline Dimensions



ABS		
Dim	Min	Max
A	4.30	4.50
B	6.00	6.40
C	3.90	4.10
D	4.90	5.10
E	1.25	1.45
F	1.60 Max	
G	0.60	0.70
H	0.15	0.25
I	0.30	0.80
J	0.02	0.15

■ Suggested pad layout



Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90



LLB02 THRU LLB10

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