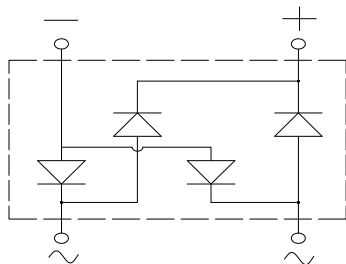


Bridge Rectifiers



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 high frequency AC/DC bridge full wave rectification for power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

- **Package:** MBLS
Molding compound meets UL 94 V-0 flammability rating, -
- **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	MBLSK22S	MBLSK24S	MBLSK26S	MBLSK28S	MBLSK210S	MBLSK215S	MBLSK220S
Device marking code			MBLSK22S	MBLSK24S	MBLSK26S	MBLSK28S	MBLSK210S	MBLSK215S	MBLSK220S
Repetitive peak reverse voltage	VRRM	V	20	40	60	80	100	150	200
Average rectified output current @60Hz Half-sine wave, Resistance load, TL (FIG.1)	Io	A	2.0						
Surge(non-repetitive)forward current @ 60Hz half-sine wave, 1 cycle, Tj=25°C	IFSM	A	50						
Current squared time @1ms≤t≤8.3ms Tj=25°C, rating of per diode	I²t	A²s	10.3						
Storage temperature	Tstg	°C	-55 ~+150						
Junction temperature	Tj	°C	-55 ~+125			-55 ~+150			

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBLSK22S	MBLSK24S	MBLSK26S	MBLSK28S	MBLSK210S	MBLSK215S	MBLSK220S
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =1.0A	0.50		0.70	0.85		0.90	
Maximum DC reverse current at rated DC blocking voltage per diode@ VRM=VRRM	IRRM	uA	Ta=25℃	500			100			
			Ta=100℃	10000			5000			

MBLSK22S THRU MBLK220S

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

PARAMETER		SYMBOL	UNIT	MBLSK22S	MBLSK24S	MBLSK26S	MBLSK28S	MBLSK210S	MBLSK215S	MBLSK220S
Thermal Resistance	Between junction and ambient, On alumina substrate	R _{θJ-A}	°C/W	76.0						
	Between junction and ambient, On glass-epoxy substrate	R _{θJ-A}		134.0						
	Between junction and lead	R _{θJ-L}		20.0						

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBLSK22S-MBLSK220S	F1	Approximate 0.083	4000	8000	64000	13' reel
MBLSK22S-MBLSK220S	F3	Approximate 0.083	5000	10000	80000	13' reel

■ Characteristics(Typical)

FIG1: I_o-T_L Curve

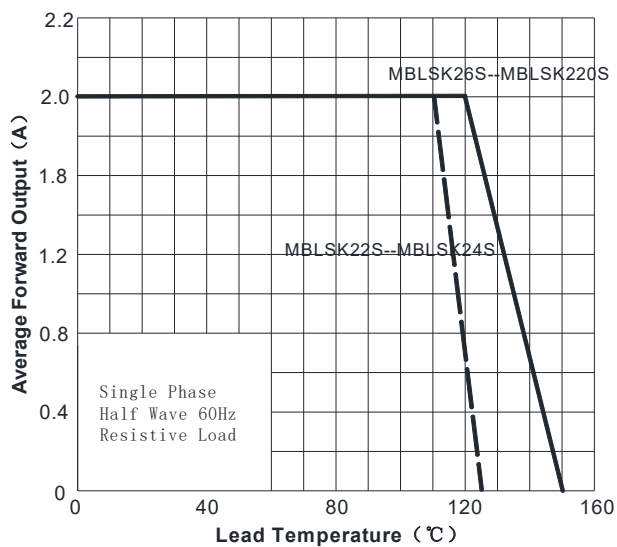


FIG2: Surge Forward Current Capability

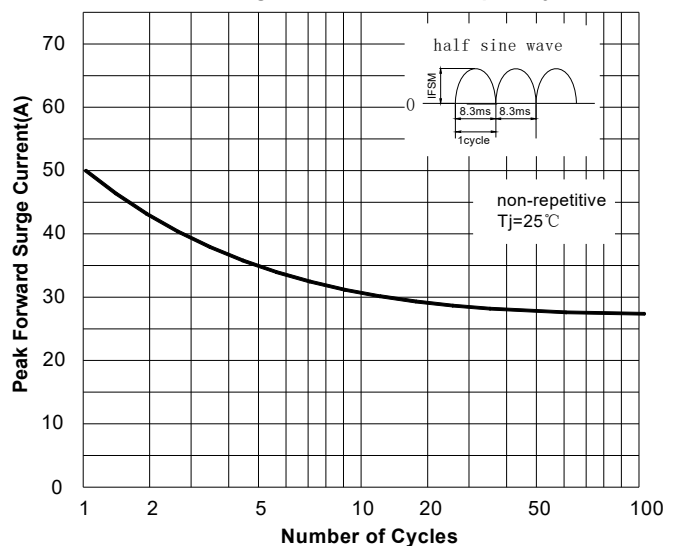


FIG3: Forward Voltage

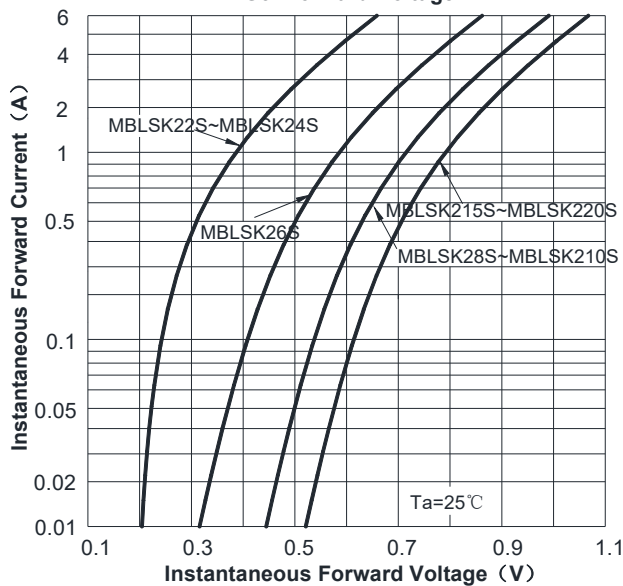
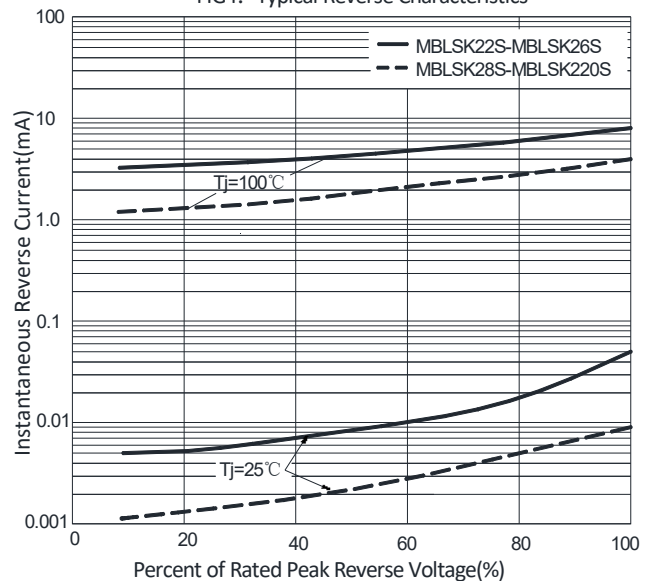
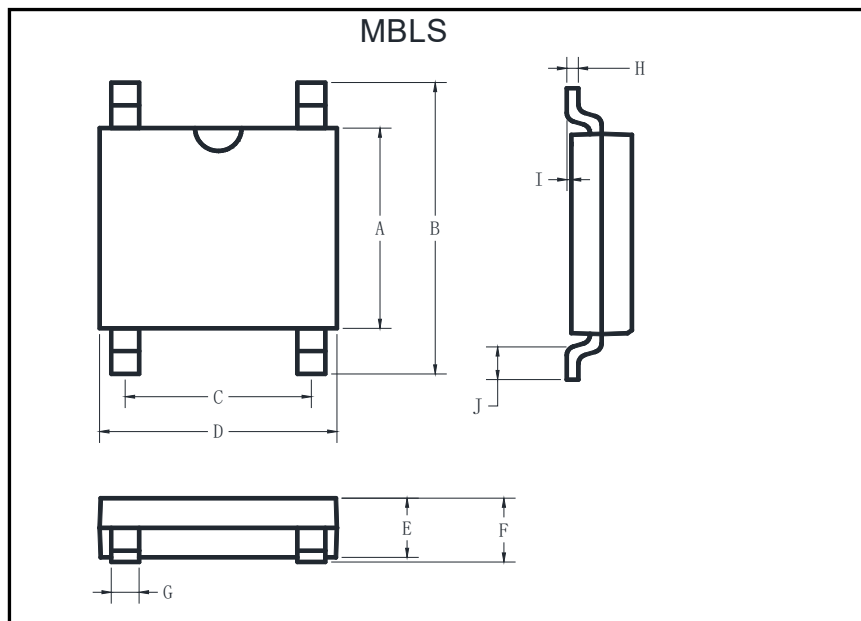


FIG4: Typical Reverse Characteristics

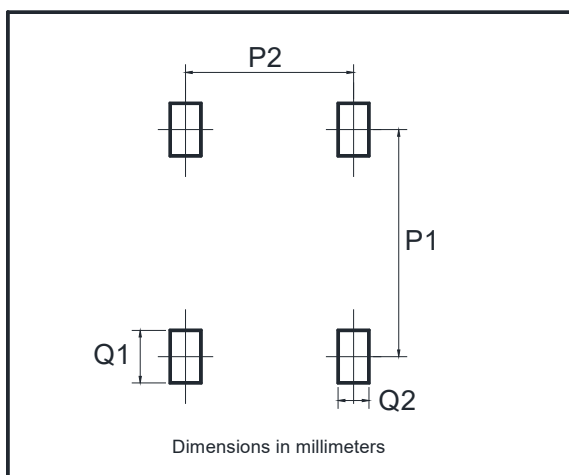


■ Outline Dimensions



MBLS		
Dim	Min	Max
A	3.60	4.00
B	6.40	7.00
C	2.20	2.60
D	4.50	4.90
E	1.30	1.50
F	1.40	1.60
G	0.56	0.84
H	0.15	0.35
I	0.20Max	
J	0.70	1.10

■ Suggested pad layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20

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