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

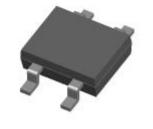
• Package: MBLS

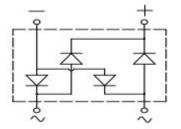
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• 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)	lo	A 2.0							
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Tj=25°C	IFSM	Α	50						
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode	l ² t	A ² s	² s 10.3						
Storage temperature	T _{Stg}	$^{\circ}$	-55 ~+150						
Junction temperature	Tj	$^{\circ}$	-55 ~+125 -55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBLSK22S	MBLSK24S	MBLSK26S	MBLSK28S	MBLSK210S	MBLSK215S	MBLSK220S
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=1.0A	0.	50	0.70	0.	85	0.	90
Maximum DC reverse current at	IDDM		Ta=25℃	Ta=25℃ 500		100				
rated DC blocking voltage per diode @ VRM=VRRM	IRRM	uA	Ta=100°C		10000			50	000	•

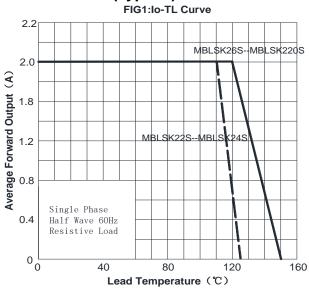
■Thermal Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

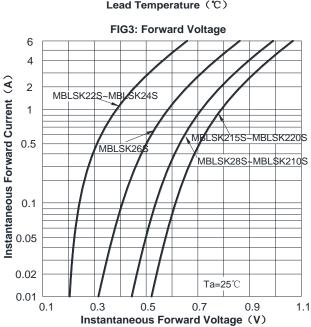
P.	ARAMETER	SYMBOL	UNIT	MBLSK22S	MBLSK24S	MBLSK26S	MBLSK28S	MBLSK210S	MBLSK215S	MBLSK220S
	Between junction and ambient, On alumina substrate	R ₀ J-A		76.0						
Thermal Resistance	Between junction and ambient, On glass-epoxi substrate	R _θ Ј-А	°C/W				134.0			
	Between junction and lead	RøJ-L		20.0						

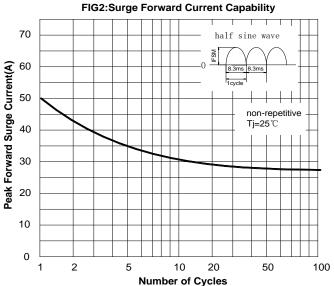
■Ordering Information (Example)

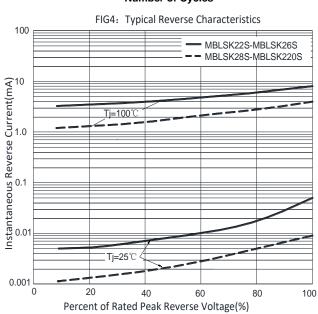
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBLSK22S-MBLSK220S	F1	Approximate 0.083	4000	8000	64000	13' reel

■ Characteristics(Typical)

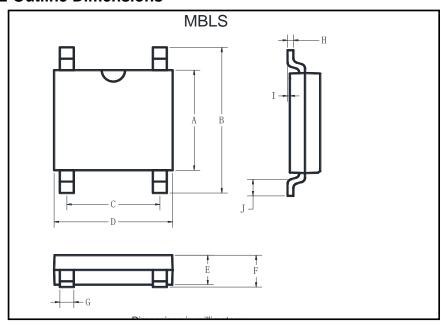






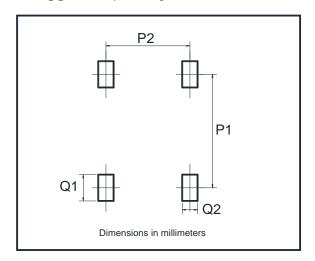


■ Outline Dimensions



MBLS						
Dim	Min	Max				
Α	3.60	4.00				
В	6.40	7.00				
С	2.20	2.60				
D	4.50	4.90				
Е	1.30	1.50				
F	1.40	1.60				
G	0.56	0.84				
Н	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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