

Bridge Rectifiers

Features

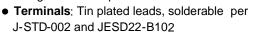
- UL recognition, file #E313149
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

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

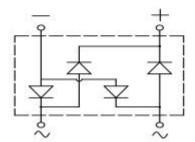
Mechanical Data

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



• Polarity: As marked on body





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

PARAMETER		SYMBOL	UNIT	MBL1SA	MBL2SA	MBL4SA	MBL6SA	MBL8SA	MBL10SA	
Device marking code				MBL1SA	MBL2SA	MBL4SA	MBL6SA	MBL8SA	MBL10SA	
Repetitive peak reverse voltage		VRRM	V	100	200	400	600	800	1000	
Average rectified output	On alumina substrate			1.0						
current @60Hz sine wave, R-load, Ta=40°C	On glass-epoxi substrate	lo	Α	0.8						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T _j =25°C		IFSM	Α	35						
Current squared time @1ms≤t≤8.3ms Tj=25℃,rating of per diode		l ² t	A ² s	5.1						
Storage temperature		T _{Stg}	$^{\circ}$ C	-55 ~+150						
Junction temperature		Tj	$^{\circ}$	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBL1SA	MBL2SA	MBL4SA	MBL6SA	MBL8SA	MBL10SA
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=0.5A	1.00					
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	RRM µA VRM=VRRM		5					



MBL1SA THRU MBL10SA

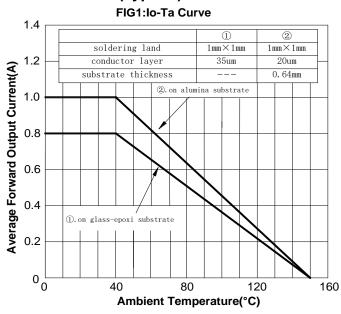
Thermal Characteristics $(T_a=25$ ℃ Unless otherwise specified)

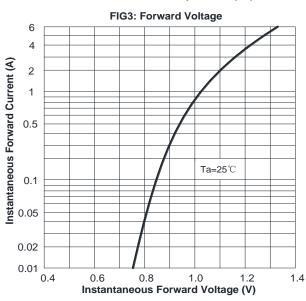
PARAMETER		SYMBOL	UNIT	MBL1SA	MBL2SA	MBL4SA	MBL6SA	MBL8SA	MBL10SA	
	Between junction and ambient, On alumina substrate	RøJ-A		76.0						
Thermal Resistance			°CM	°C/W 134.0						
	Between junction and lead	R ₀ J-L				20).0			

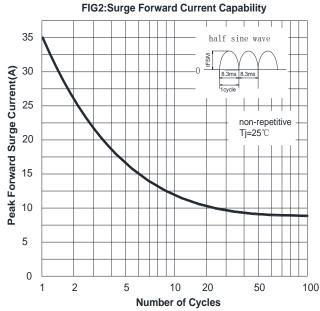
■Ordering Information (Example)

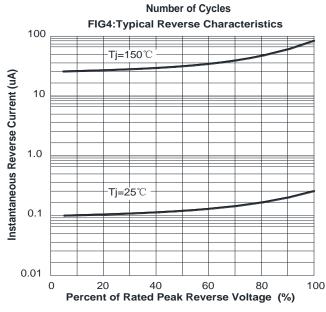
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBL1SA-MBL10SA	F1	Approximate 0.083	4000	8000	64000	13' reel

■ Characteristics(Typical)



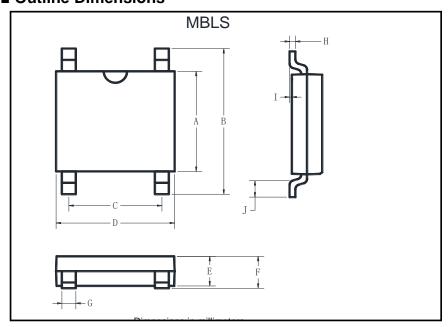






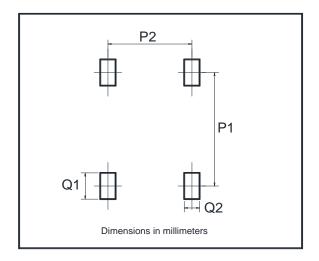
MBL1SA THRU MBL10SA

■ 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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