

Features

- UL recognition, file #E313149
- Ideal for automated placement
- Glass passivated chip junction
- 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: MBS

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	HMB6S	HMB8S	HMB10S
Device marking code			HMB6S	HMB8S	HMB10S
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	600	800	1000
Maximum RMS Voltage	VRMS	٧	420	560	700
Maximum DC blocking Voltage	VDC	٧	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=115℃	lo	Α	1.0		
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C	IFSM	Α	30		
Current squared time @1ms≤t≤8.3ms Tj=25℃,rating of per diode	l²t	A ² s	3.7		
Storage temperature	T _{stg}	$^{\circ}$	-55 ~ +150		
Junction temperature	Tj	$^{\circ}$	-55 ~ +150		

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HMB6S	HMB8S	HMB10S
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A, I _r =0.25A	75		
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=0.5A	1.7		
Maximum DC reverse current at			T _j =25°C	5		
rated DC blocking voltage per diode		μA	T _j =125°C	100		
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C		12	

HMB6S THRU HMB10S

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

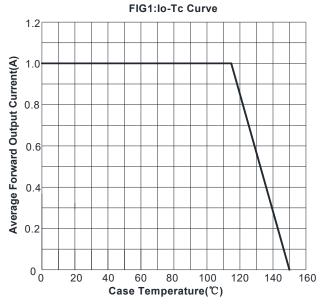
	PARAMETER	SYMBOL	UNIT	HMB6S	HMB8S	HMB10S
Typical	Between junction and ambient	RθJ-A		65.0		
Typical Thermal	Between junction and lead	RθJ-L	°C/W		28.0	
Resistance	Resistance Between junction and case Rej-C				20.0	

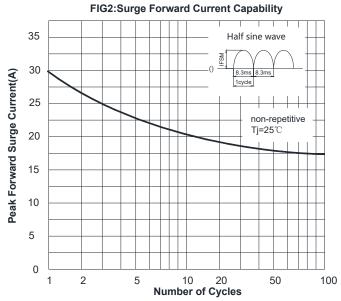
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

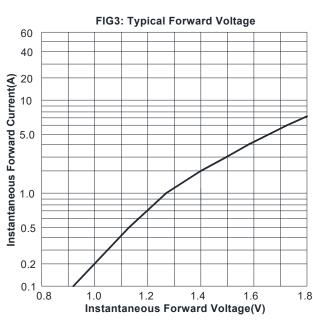
■Ordering Information (Example)

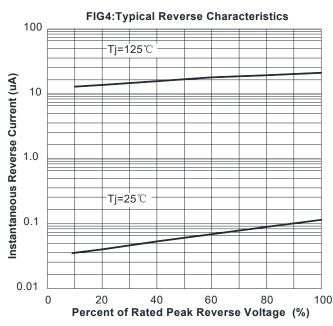
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HMB6S ~ HMB10S	F1	Approximate 0.12	2500	1	40000	13' reel
HMB6S ~ HMB10S	F2	Approximate 0.12	3000	1	48000	13' reel

■ Characteristics(Typical)





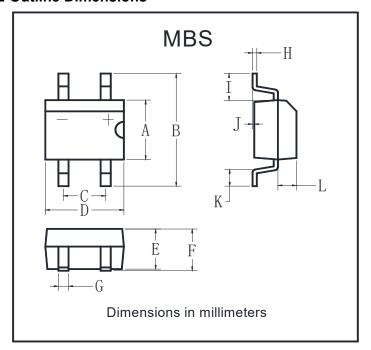






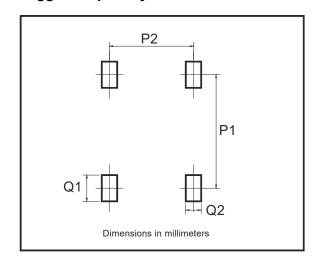
HMB6S THRU HMB10S

■ Outline Dimensions



MBS				
Dim	Min	Max		
Α	3.60	4.00		
В	7.00	Max		
С	2.20	2.60		
D	4.50	4.90		
Е	2.30	2.70		
F	3.00 Max			
G	0.56	0.84		
Н	0.15	0.35		
I	1.10	2.12		
J	0.20 Max			
K	0.70	1.10		
L	0.95	1.53		

■ Suggested pad layout



Dim	Min		
P1	6.00		
P2	2.40		
Q1	1.84		
Q2	1 20		



HMB6S THRU HMB10S

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