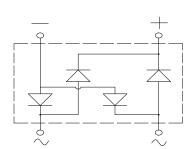


Bridge Rectifiers





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 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

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: As marked on body

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

Tataligo (14 20 cineta sincipal)								
PARAMETER	SYMBOL	UNIT	HD1S	HD2S	HD4S	HD6S	HD8S	HD10S
Device marking code			HD1S	HD2S	HD4S	HD6S	HD8S	HD10S
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	100	200	400	600	800	1000
Average rectified output current @8.3ms sine wave, R-load, Tc=125℃	lo	А	0.8					
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C	IFSM	Α	25					
Current squared time @1ms≤t<8.3ms Tj=25℃,Rating of per diode	l ² t	A ² s	2.6					
Storage temperature	Tstg	°C	-55 ~ + 150					
Junction temperature	Tj	°	-55 ~ +150					

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HD1S	HD2S	HD4S	HD6S	HD8S	HD10S
Maximum instantaneous forward voltage drop per diode	VF	>	IFM=0.4A 1.0						
Maximum DC reverse current at		^	T _j =25°C	5					
rated DC blocking voltage per diode	IR	μA	T _j =125°C	=125°C 50					
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	6					



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

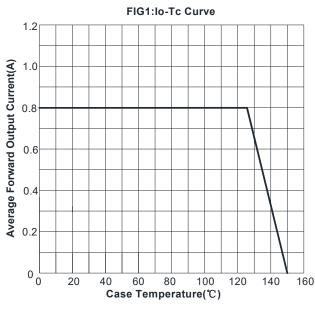
PARAMETER		SYMBOL	UNIT	HD1S	HD2S	HD4S	HD6S	HD8S	HD10S
Typical	Between junction and ambient	RøJ-A				65.0			
Typical Thermal	Between junction and lead	R0J-L	°C/W	28.0					
Resistance	Between junction and case	R ₀ J-C		20.0					

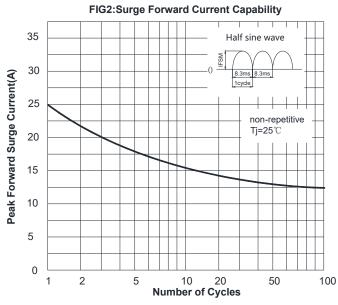
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

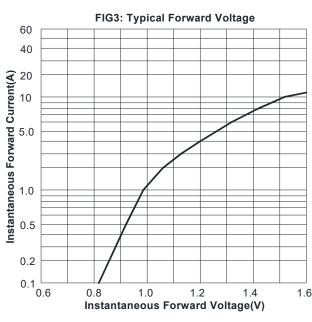
■Ordering Information (Example)

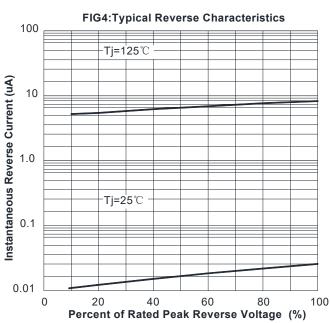
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HD1S ~ HD10S	F1	Approximate 0.12	2500	1	40000	13' reel
HD1S~HD10S	F2	Approximate 0.12	3000	1	48000	13' reel

■ Characteristics(Typical)



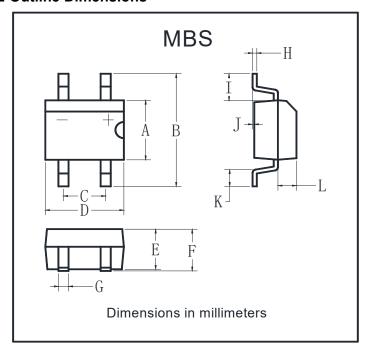






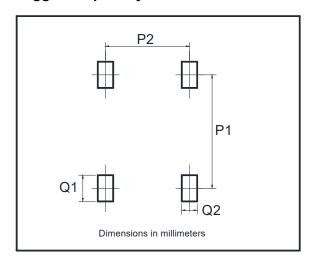


■ Outline Dimensions



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		
Ω2	1.20		



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