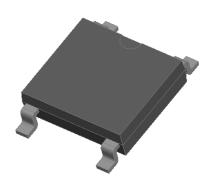
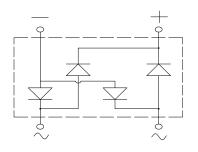




High Efficient Bridge Rectifiers





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 SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

• Package: ABS

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

 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	HABS1506	HABS1508	HABS1510
Device marking code			HABS1506	HABS1508	HABS1510
Maximum Repetitive Peak Reverse Voltage	VRRM	V	600	800	1000
Maximum RMS Voltage	VRMS	V	420	560	700
Maximum DC blocking Voltage	VDC	V	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=110°C	IO	Α	1.5		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFOM			50	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM A			100	
Current squared time @1ms≤t<8.3ms Tj=25℃,Rating of per diode	l²t	A ² s	10.4		
Storage temperature	T _{stg}	°C	-55 ~ +150		
Junction temperature	Tj	°C	-55 ~ + 150		

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HABS1506	HABS1508	HABS1510
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	٧	IFM=0.7A	1.7		
Maximum DC reverse current at rated DC blocking voltage	IR	μA	T _j =25°C	5		
per diode	ır.	μΑ	T _j =125°C		100	
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C		15	

HABS1506 THRU HABS1510

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

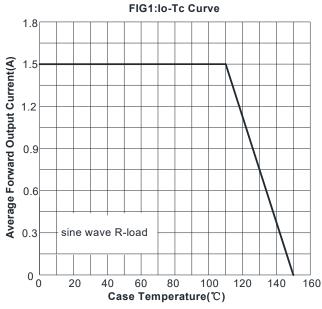
PARAMETER		SYMBOL	UNIT	HABS1506	HABS1508	HABS1510
	Between junction and ambient	RøJ-A			62.5	
Thermal Resistance	Between junction and lead	RθJ-L	°C/W 25.0 8.0			
	Between junction and case	RøJ-C				

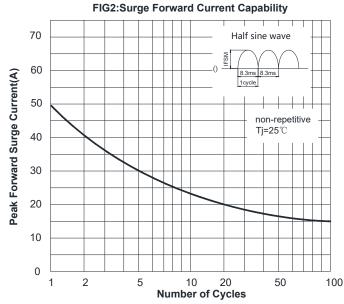
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

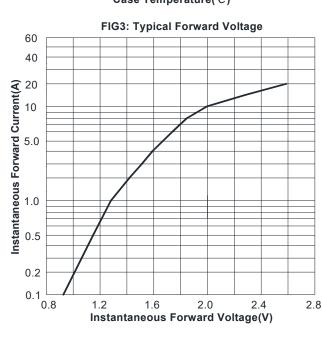
■ Ordering Information (Example)

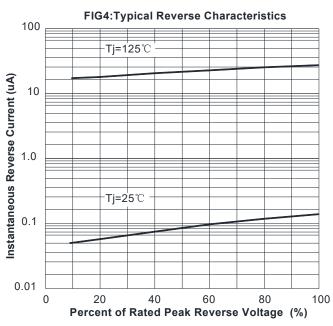
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HABS1506-HABS1510	F1	Approximate 0.095	4000	1	64000	13" reel
HABS1506-HABS1510	F5	Approximate 0.095	5000	1	80000	13" reel

■ Characteristics (Typical)



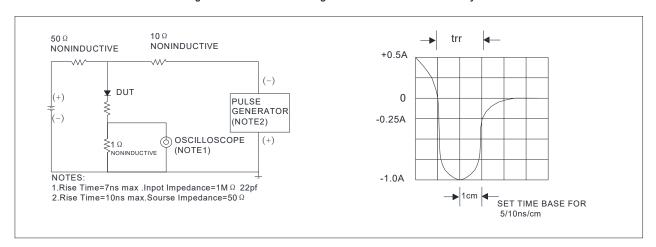




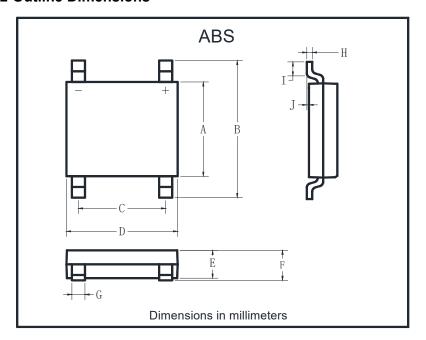


HABS1506 THRU HABS1510

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

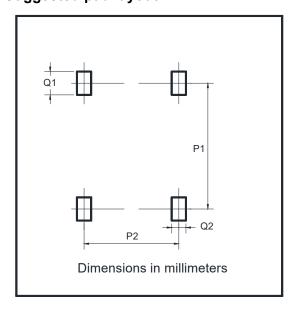


■ Outline Dimensions



ABS				
Dim	Min	Max		
Α	4.30	4.50		
В	6.00	6.40		
С	3.90	4.10		
D	4.90	5.10		
Е	1.25	1.45		
F	1.60 Max			
G	0.60	0.70		
Н	0.15	0.25		
1	0.30	0.80		
J	0.02	0.15		

■ Suggested pad layout



Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90



HABS1506 THRU HABS1510

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http://www.21yangjie.com, or consult your nearest Yangjie's sales office for further assistance.