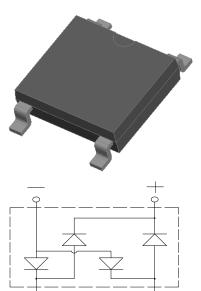




Super Fast Recovery Bridge Rectifiers



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 high frequency 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	EABS6
Device marking code			EABS6
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	600
Maximum RMS Voltage	VRMS	V	420
Maximum DC blocking Voltage	VDC	V	600
Average rectified output current @60Hz sine wave, R-load, Tc=130℃	Ю	Α	1.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	1	IFSM A	30
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM		60
Current squared time @1ms≤t<8.3ms Tj=25°C,Rating of per diode	l ² t	A ² s	3.74
Storage temperature	Tstg	°C	-55 ~ +150
Junction temperature	Tj	°C	-55 ~ +150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	EABS6
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A, I _R =1.0A, I _r =0.25A	35
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=0.5A	1.7
Maximum DC reverse current at rated DC blocking voltage	IR		T _j =25°C	5
per diode	ir	μA	T _j =125°C	100
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	13



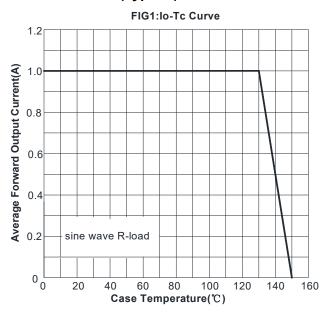
	PARAMETER	SYMBOL	UNIT	EABS6
	Between junction and ambient	RθJ-A		62.5
Thermal Resistance	Between junction and lead	RθJ-L	°C/W	25.0
	Between junction and case	R ₀ J-C		8.0

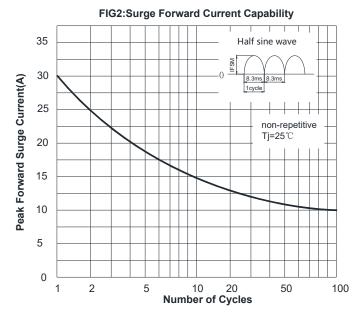
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm

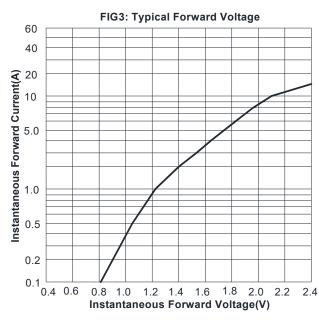
■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
EABS6	F1	Approximate 0.095	4000	1	64000	13" reel
EABS6	F5	Approximate 0.095	5000	1	80000	13" reel

■ Characteristics (Typical)







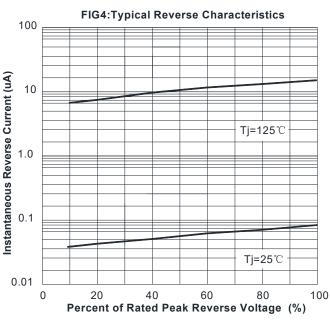
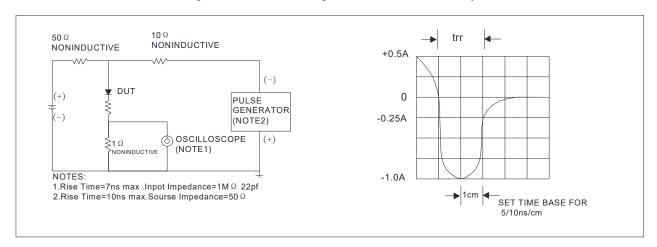
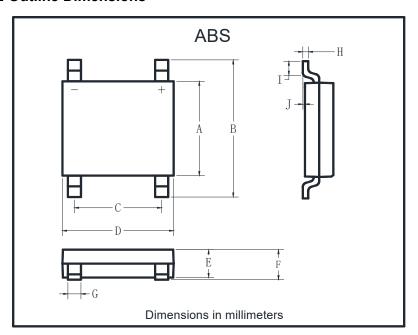




FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

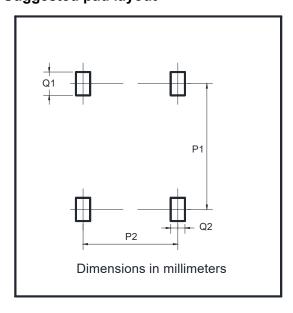


■ Outline Dimensions



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			
I	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

3/4



EABS6

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.