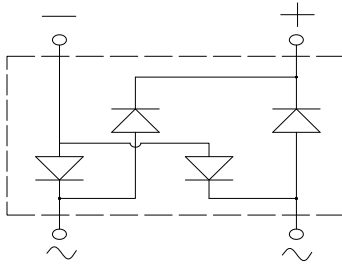
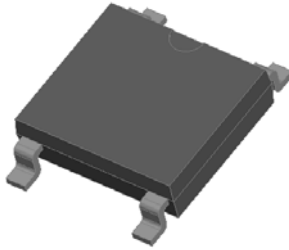


Bridge Rectifiers



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 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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	EABS05	EABS1	EABS2	EABS3	EABS4	EABS5	EABS6	EABS8
Device marking code			EABS05	EABS1	EABS2	EABS3	EABS4	EABS5	EABS6	EABS8
Repetitive peak reverse voltage	VRRM	V	50	100	200	300	400	500	600	800
Average rectified output current @60Hz sine wave, R-load, On alumina substrate	I _O	A	1.0							
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T _j =25°C	I _{FSM}	A	30							
Current squared time @1ms≤t<8.3ms T _j =25°C, Rating of per diode	I ² t	A ² s	3.7							
Storage temperature	T _{stg}	°C	-55 ~+150							
Junction temperature	T _j	°C	-55 ~+150							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	EABS05	EABS1	EABS2	EABS3	EABS4	EABS5	EABS6	EABS8
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A	0.95			1.30		1.70		1.85
Maximum Reverse	Trr	ns	IF=0.5A,IR=1.0A, Irr=0.25A	35							
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}	5							



EABS05 THRU EABS8

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

PARAMETER		SYMBOL	UNIT	EABS05	EABS1	EABS2	EABS3	EABS4	EABS5	EABS6	EABS8
Thermal Resistance	Between junction and ambient, On alumina substrate	$R_{\theta J-A}$	$^{\circ}\text{C/W}$	62.5							
	Between junction and lead	$R_{\theta J-L}$		25.0							

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
EABS05-EABS8	F1	Approximate 0.095	4000	8000	64000	13" reel
EABS05-EABS8	F5	Approximate 0.095	5000	10000	80000	13" reel

■ Characteristics (Typical)

FIG1: I_o - T_a Curve

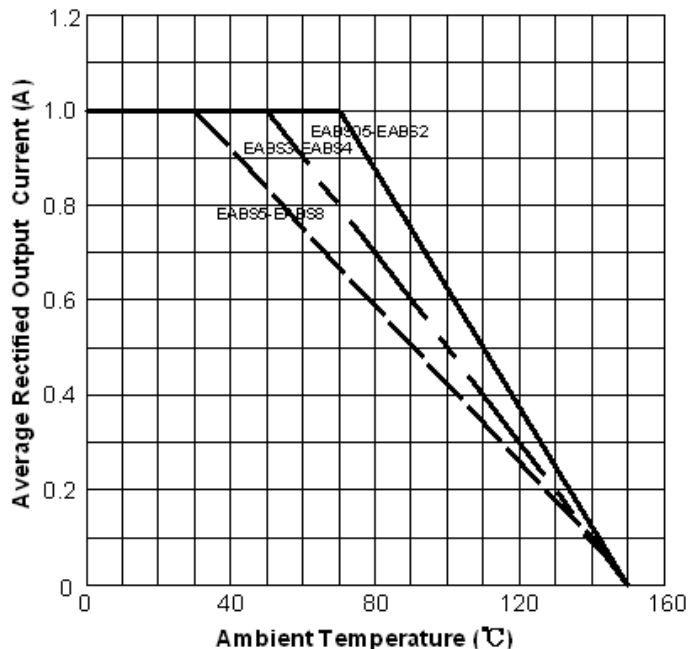


FIG2: Surge Forward Current Capability

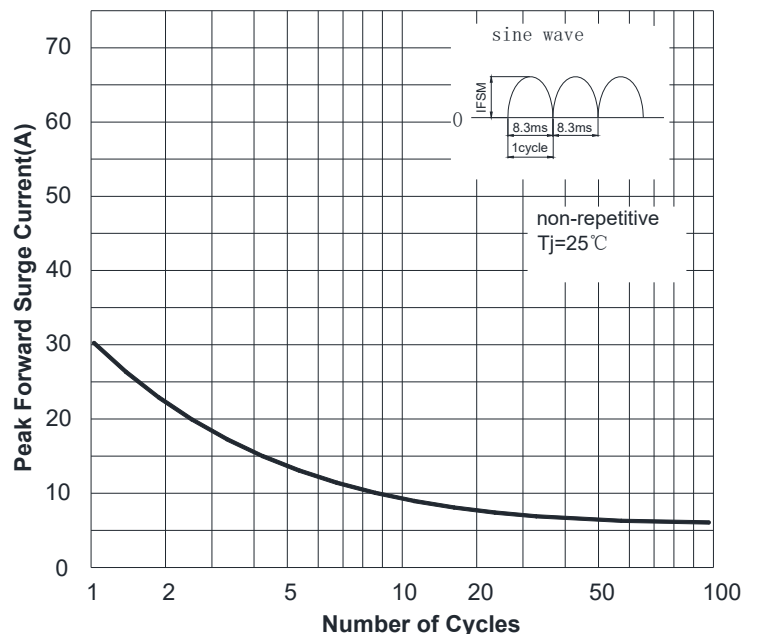


FIG3: Forward Voltage

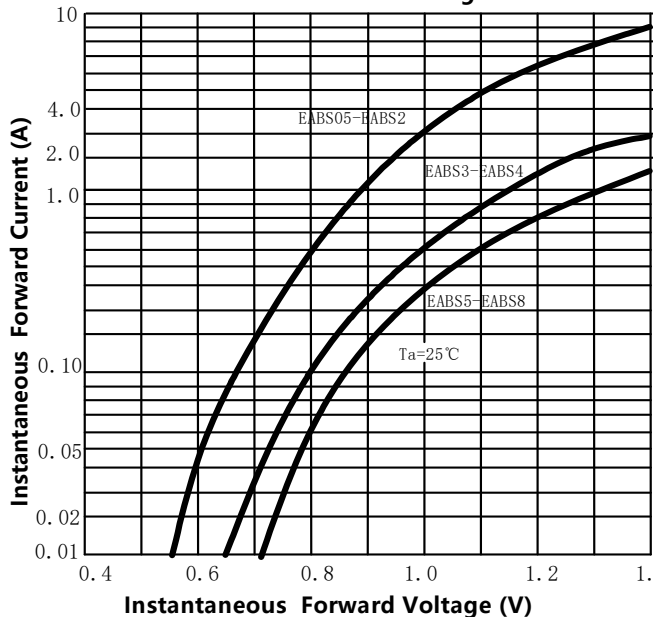


FIG4: Typical Reverse Characteristics

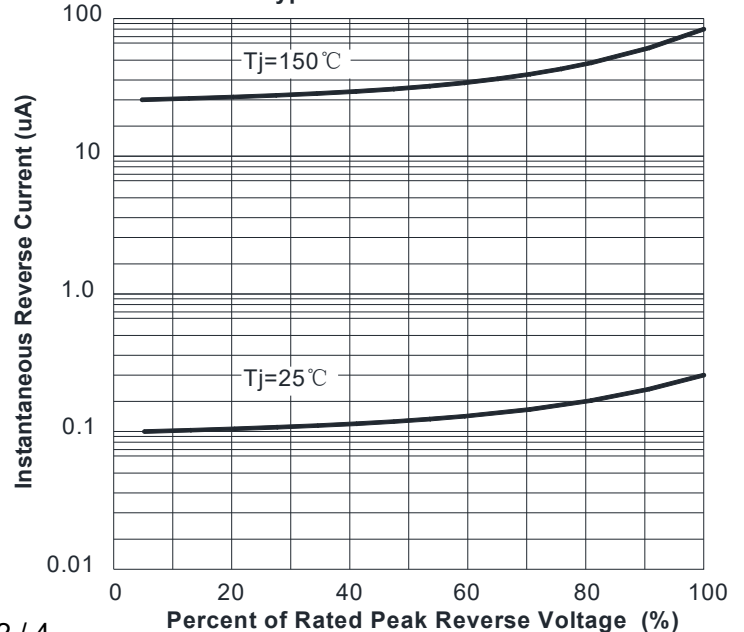
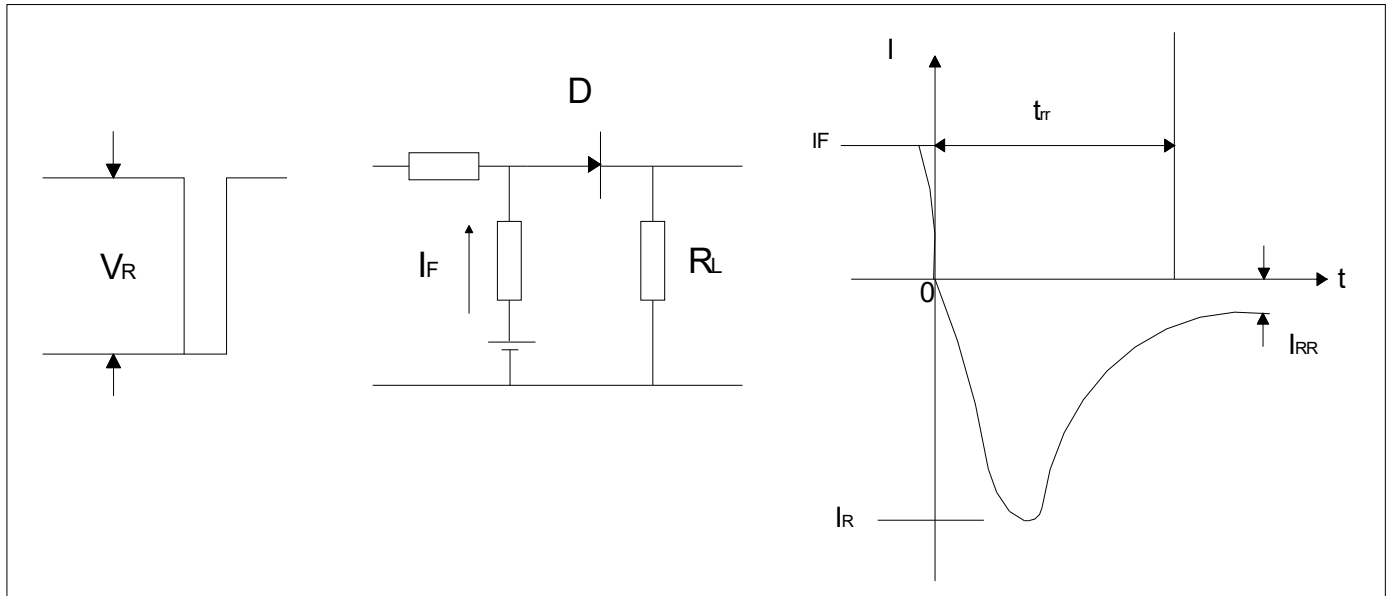
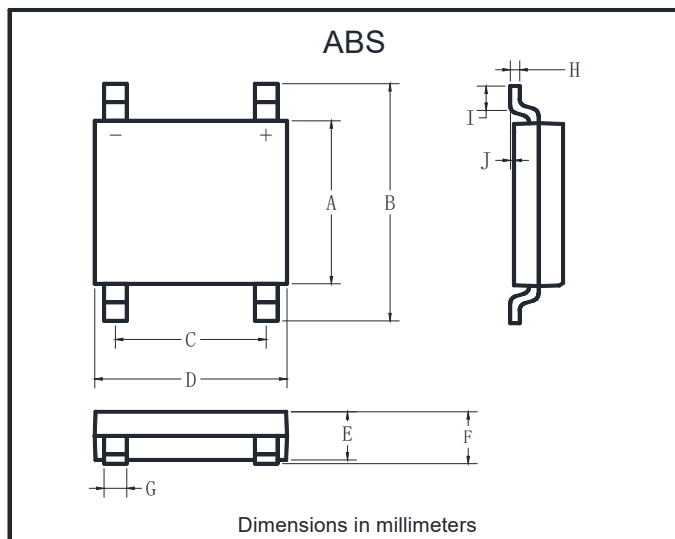


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

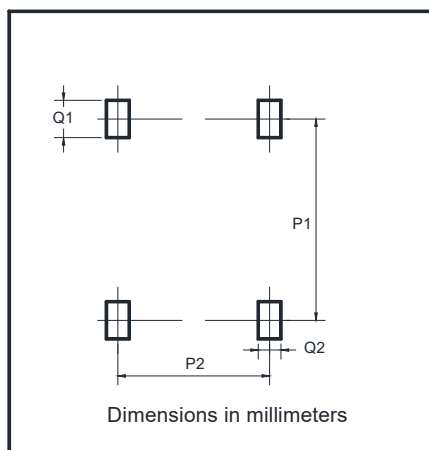


■ Outline Dimensions



ABS		
Dim	Min	Max
A	4.30	4.50
B	6.00	6.40
C	3.90	4.10
D	4.90	5.10
E	1.25	1.45
F	1.60 Max	
G	0.60	0.70
H	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



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