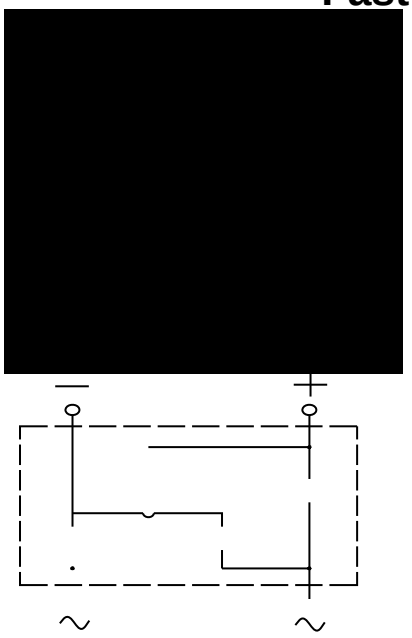
Fast Recovery Bridge Rectifiers



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 (T_a=25 Unless otherwise specified

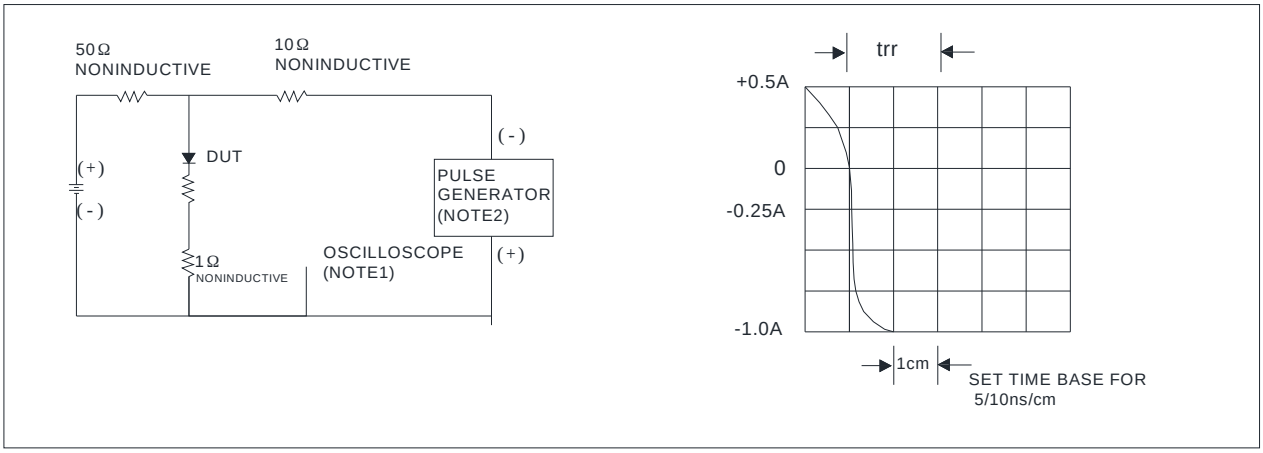
PARAMETER	SYMBOL	UNIT	RABS10
Device marking code			RABS10
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	1000
Maximum RMS Voltage	V_{RMS}	V	700
Maximum DC blocking Voltage	V_{DC}	V	1000
Average rectified output current @60Hz sine wave, R-load, Tc=130	I_O	A	1.0
Forward Surge Current "	I' η	N;τ	

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RABS10
Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A	500
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=0.5A	1.3
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25	5
			T_j	
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	

■**Thermal Characteristics** T_a=25 Unless otherwise specified

PARAMETER	

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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