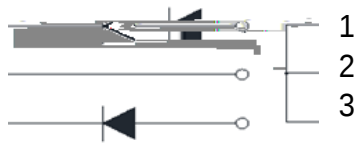
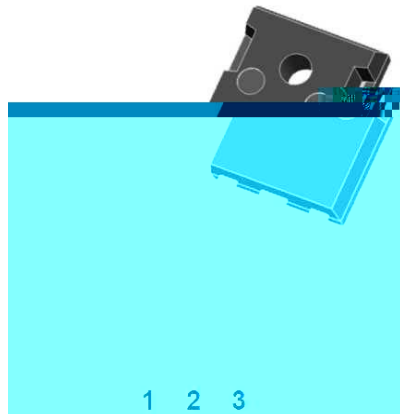




Ultra-Fast Recovery Diodes 10A*2 FRED



Features

- Adopt FRED chip
- Low forward Voltage drop
- Fast reverse recovery time
- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability

Typical Applications

- Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

- **Package:** TO-247AB
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
@60Hz half sine-wave, 1 cycle, $T_j=25$

Surge 10A non-repet

	FSM	A	120
Current Squared Time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ $T_j=25$	I^2t	A^2s	60
Single Pulse Avalanche Energy @ $T_p=40\mu\text{s}$, $T_j=25$, $L=15\text{mH}$	EAS	mJ	86

Typical Junction capacitance @4V,1MHz	C_j	pF	50

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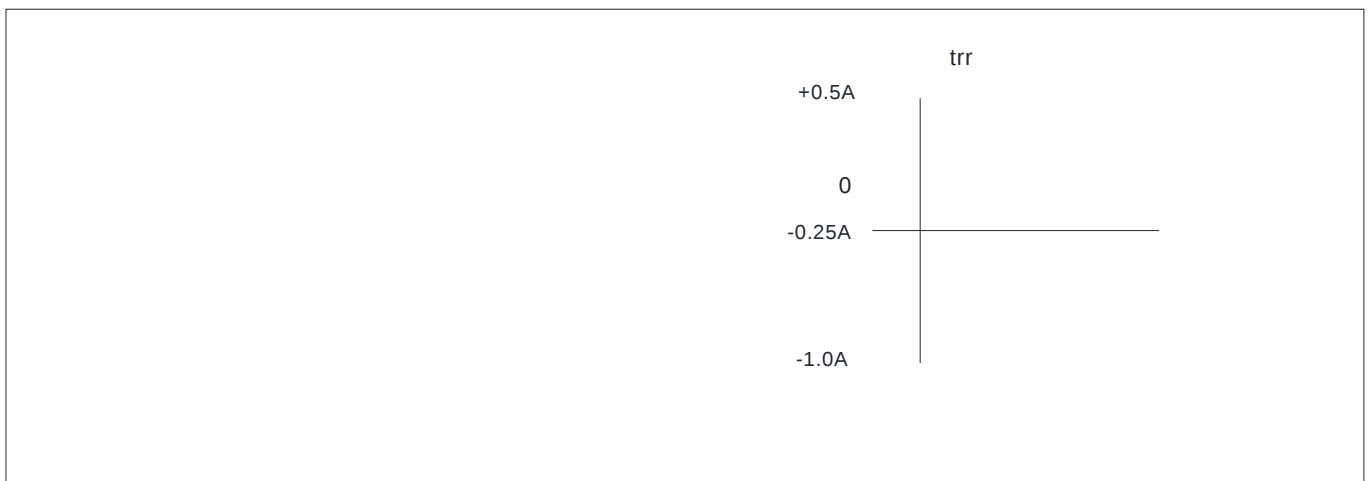
■Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=10.0A$ @ $T_J=25$	-	1.15	1.30
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}		$V_{RM}=V_{RRM}$ $T_J=25$	-	-	5
Reverse Recovery Time	T_{rr}	ns				



■Characteristics (Typical)

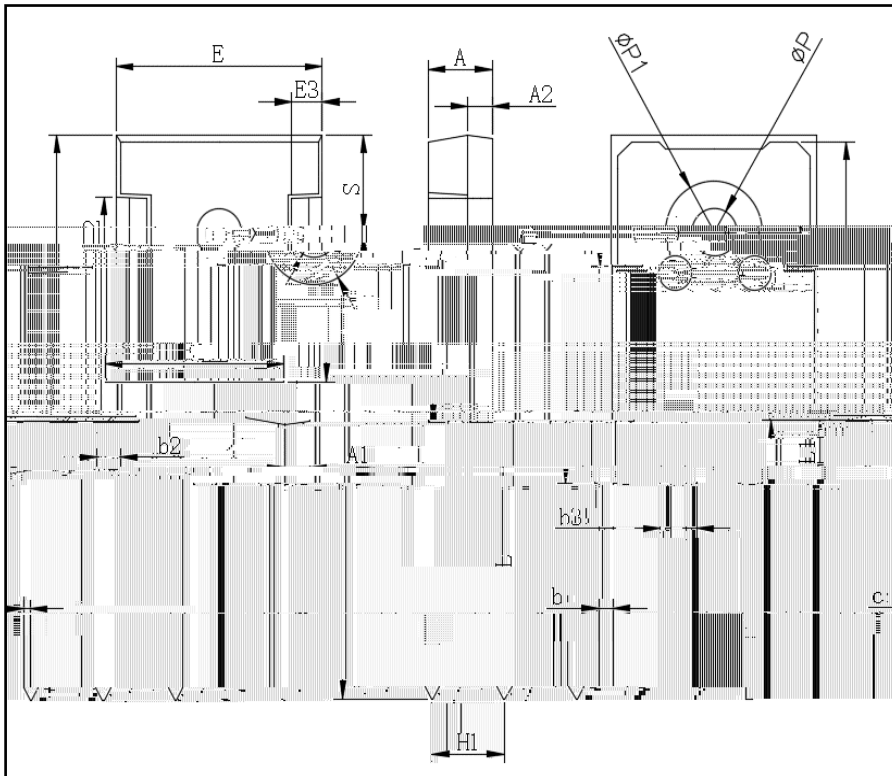
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





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■Outline Dimensions



TO-247AB		
Dim	Min	Max
A	4.80	5.20
A1	2.21	2.61
A2	1.85	2.15
b	1.0	1.4
b2	1.91	2.21
C	0.5	0.7
D	20.70	21.30
D1	16.25	16.85
E	15.50	16.10
E1	13.0	13.6
E2	4.80	5.20
E3	2.30	2.70
L	19.62	20.22
L1	-	4.30
ΦP	3.40	3.80
ΦP1	-	7.30
S	6.15TYP	
H1	5.44TYP	
b3	2.80	3.20

Disclaimer

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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 which 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.

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