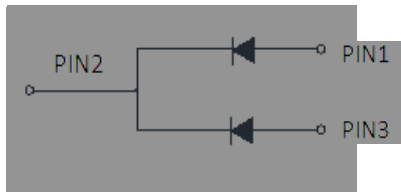
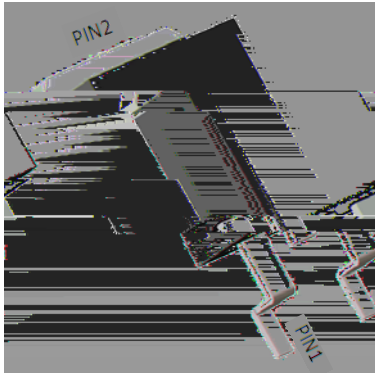


Ultra-Fast Recovery Diodes 10A*2 FRED



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-263
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

■Maximum Ratings (T_j=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MURB2020CT
Device marking code			MURB2020CT

Repetitive Surge (Non-repetitive) Forward Current
@60Hz half sine-wave, 1 cycle, T_j=25 °C

	FSM	A	120
Current Squared Time @1ms≤t≤8.3ms T _j =25 °C	I ² t	A ² s	60
Storage Temperature	T _{stg}		-55 ~ +175
Junction Temperature	T _j		-55 ~ +175
Typical Junction capacitance @4V,1MHz	C _j	pF	150



■Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=10.0A$ @ $T_J=25$	-	0.90	1.0
			$I_{FM}=10.0A$ @ $T_J=150$		0.78	0.9
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	$V_{RM}=V_{RRM}$ $T_J=25$	-	-	5.0
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_J=150$ $I_F=0.5A$ $I_{RM}=1A$ $I_{RR}=0.25A$ $T_J=25$	-	30	50
Reverse Recovery Time	T_{rr}	ns				

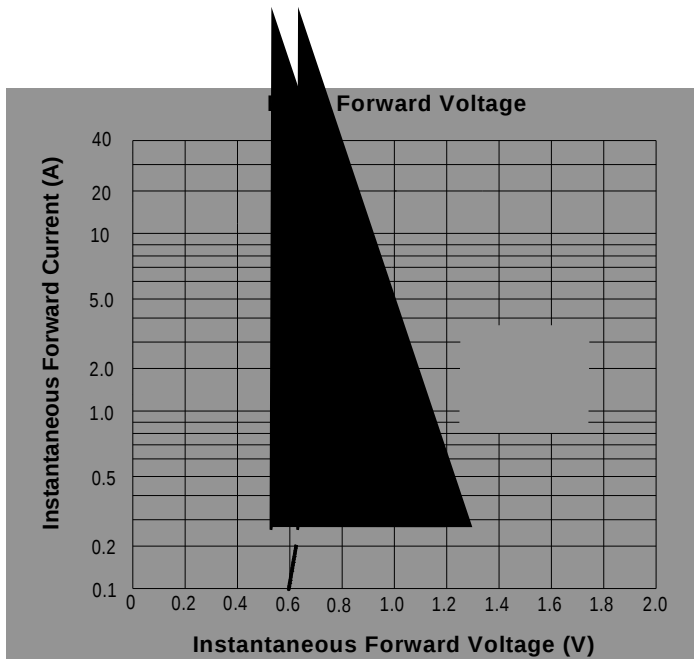
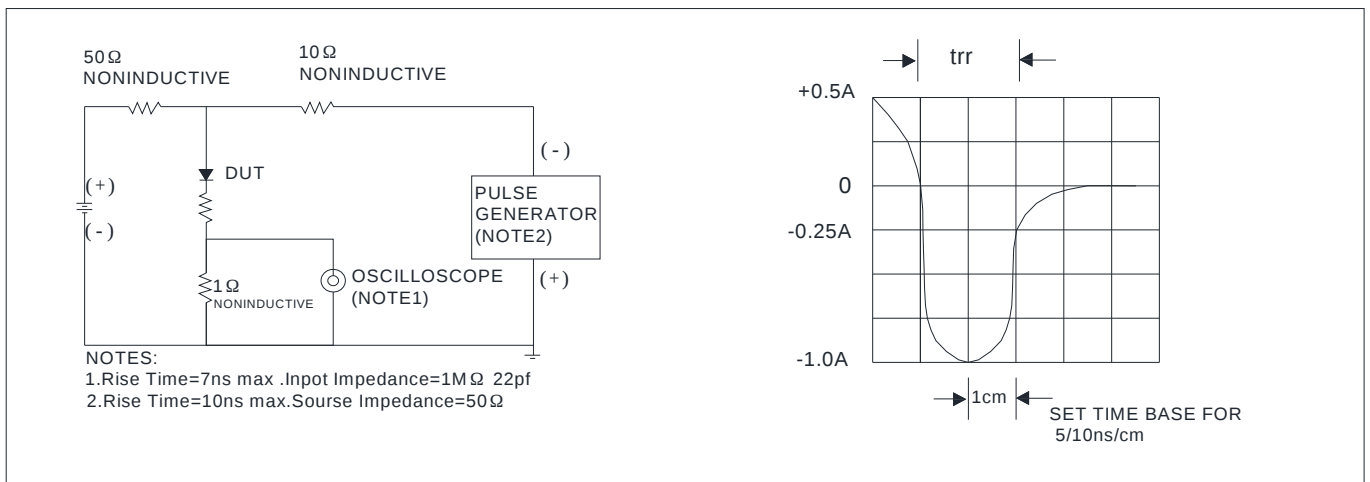


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





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