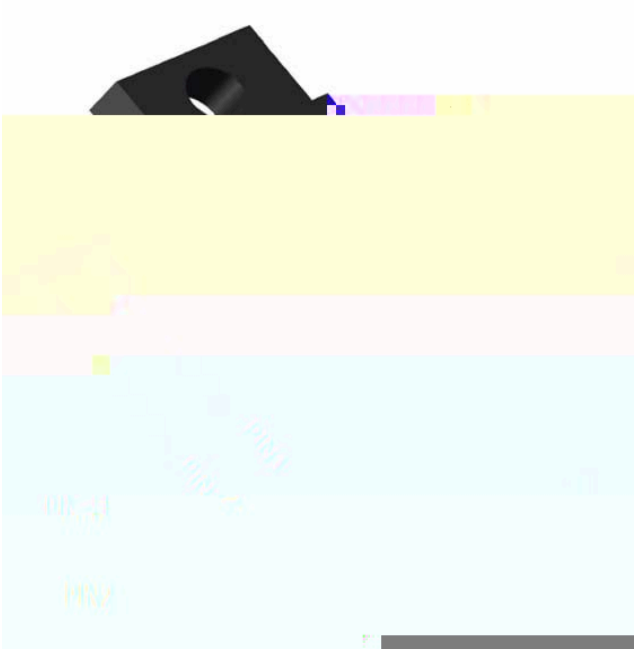
Ultra-Fast Recovery Rectifier Diodes



Features

- High frequency operation
- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

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

Mechanical Data

- **Package**: ITO-220AC
  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_a=25 Unless otherwise specified

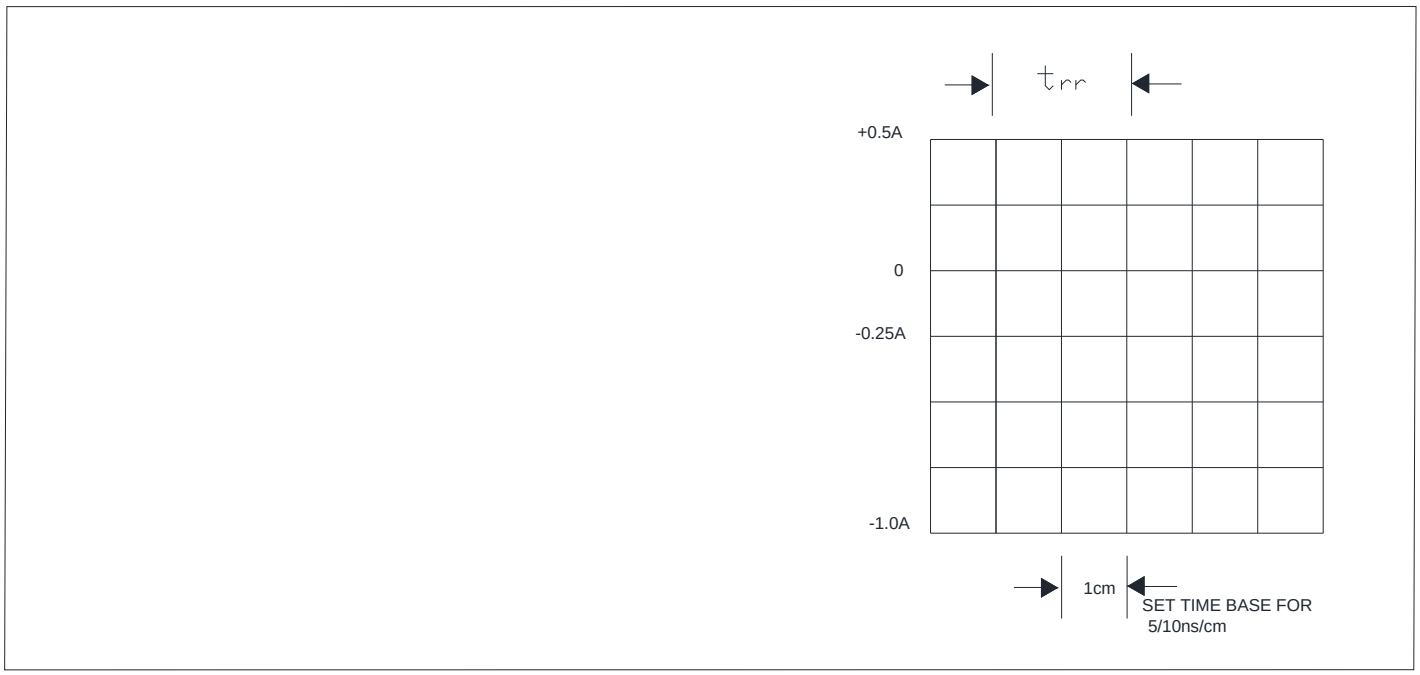
PARAMETER	SYMBOL	UNIT	MUR810F	MUR815F	MUR820F	MUR840F	MUR860F
Device marking code			MUR810F	MUR815F	MUR820F	MUR840F	MUR860F
Repetitive Peak Reverse Voltage	V_{RRM}	V	100	150	200	400	600
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	I_o	A	8				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25	I_{FSM}	A	100				
	I^2t	A^2s.	41				
	T_{stg}		-55 ~ +150				

		MUR810F	MUR815F	MUR820F	MUR840F	MUR860F
V	I_{FM}=8.0A	0.975			1.3	1.5
uA	V_{RM}=V_{RRM} T_a=25	10				
	V_{RM}=V_{RRM} T_a=125	500				
ns	I_F=0.5A I_{RM}=1A I_{RR}=0.25A	50				

	SYMBOL	UNIT	MUR810F	MUR815F	MUR820F	MUR840F	MUR860F
	$R_{\theta J-C}$	/W	2.5				

■**Ordering Information**

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



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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 with would directly endanger Ú τ p l M D