



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	VRRM	V	100	150	200	400	600
Average Rectified Output Current @60Hz half sine-wave, R-load, T _c (FIG.1)	I _o	A	8				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25	I _{FSM}	A	100				
	I ² t	A ² s.	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 _{θJ-C}	W	2.5				

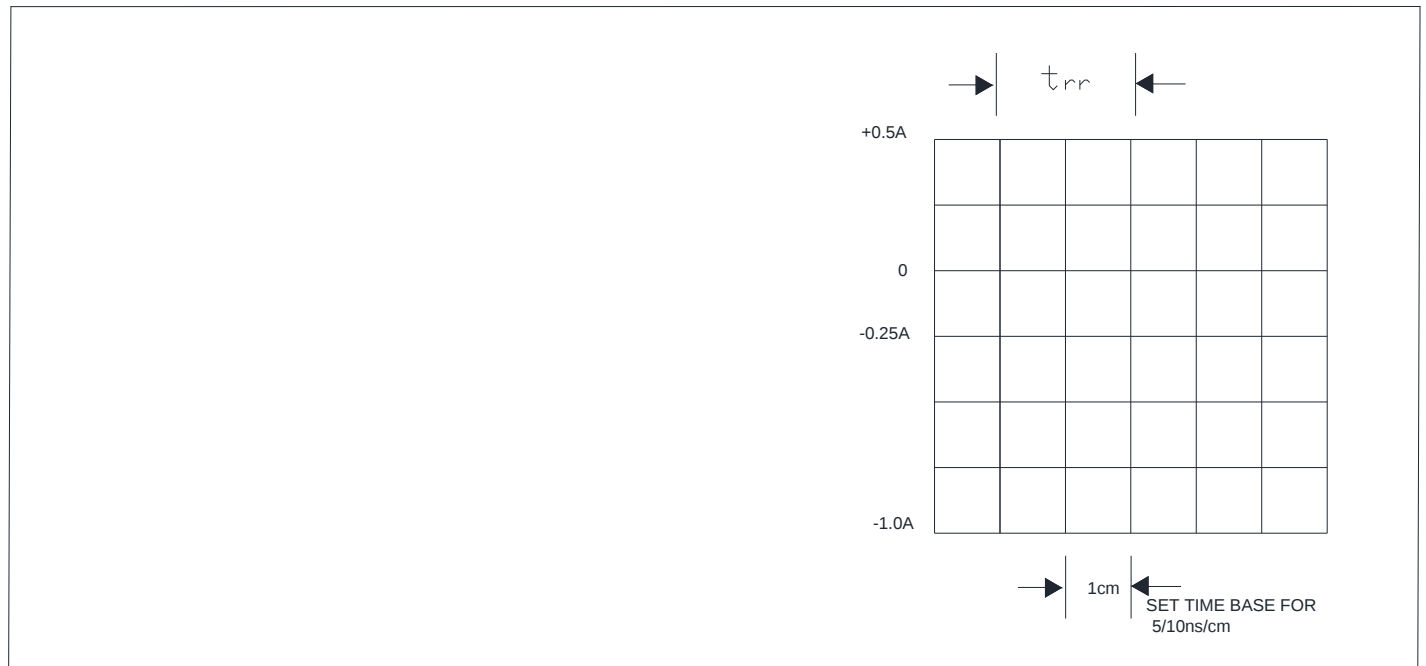


■Ordering Information



MUR810F THRU MUR860F-B1-0000S

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





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 Ü

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