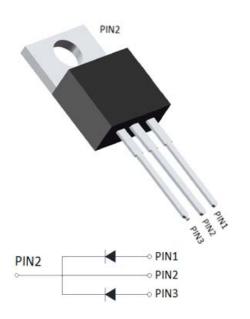


Ultra-Fast Recovery Rectifier Diodes



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: TO-220AB
 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 (Ta=25°C Unless otherwise specified)

= maximum ratings (18 20 0 0 most out of most opening)							
PARAMETER	SYMBOL	UNIT	MUR810CT	MUR815CT	MUR820CT	MUR840CT	MUR860CT
Device marking code			MUR810CT	MUR815CT	MUR820CT	MUR840CT	MUR860CT
Repetitive Peak Reverse Voltage	VRRM	٧	100	150	200	400	600
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	lo	А	4				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	IFSM	Α	75				
Current Squared Time @1ms≤t≤8.3ms Tj=25°C,, Rating of per diode	l ² t	A ² s	23				
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~ + 150				
Junction Temperature	Tj	$^{\circ}$	-55 ~ + 150				

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MUR810CT	MUR815CT	MUR820CT	MUR840CT	MUR860CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=4.0A	0.975 1.3 1.4			1.5	
Maximum DC reverse current at	IRRM1		VRM=VRRM T _a =25℃	10				
rated DC blocking voltage per diode	IRRM2	uA	VRM=VRRM T _a =125°C	500				
Reverse Recovery Time	Trr	ns	I _F =0.5A I _{RM} =1A I _{RR} =0.25A	50				

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

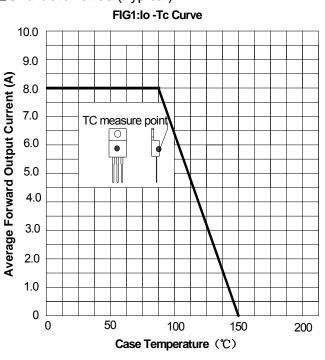
PARAMETER		SYMBOL	UNIT	MUR810CT	MUR815CT	MUR820CT	MUR840CT	MUR860CT
Thermal Resistance	Between junction and case	R _{eJ-C}	°CM			2.0		

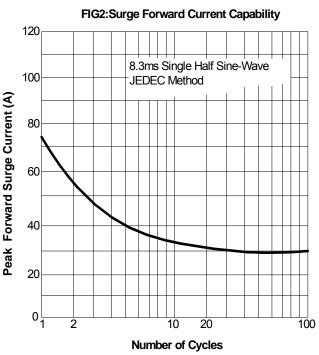


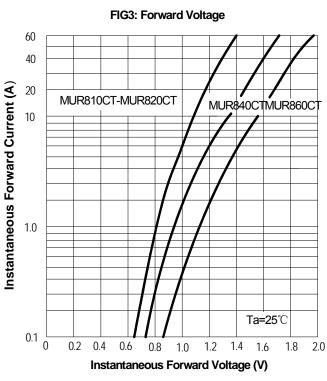
■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MUR810CT~MUR860CT	Approximate 1.87	50	1000	5000	Tube	

■Characteristics (Typical)







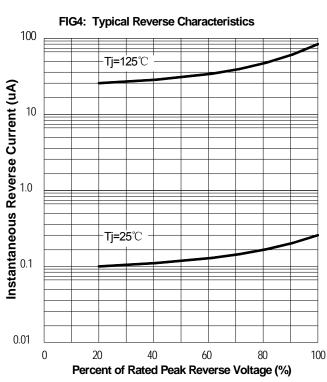
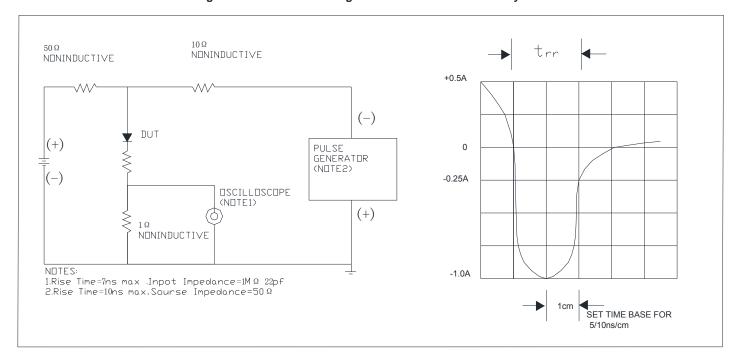
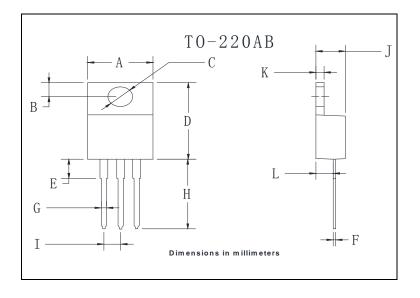




FIG.5 Diagram of circuit and Testing wave form of reverse recovery time



■Outline Dimensions



TO-220AB					
Dim	Min	Max			
Α	9.5	10.9			
В	2.22	3.27			
С	3.34	4.31			
D	14.5	15.5			
Е	3.16	4.46			
F	0.28	0.64			
G	0.68	0.94			
Н	13.06	14.62			
I	2.01	3.07			
J	4.04	5.1			
K	1.14	1.4			
L	2.14	3.19			



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