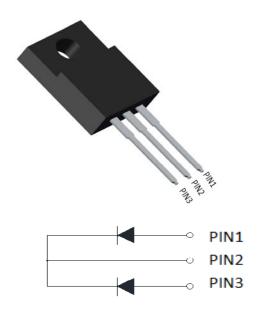


Ultra-Fast Recovery Rectifier Diodes



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-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)

PARAMETER	SYMBOL	UNIT	MUR2040FCT	MUR2060FCT
Device marking code			MUR2040FCT	MUR2060FCT
Repetitive Peak Reverse Voltage	VRRM	V	400 600	
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	I _O	Α		20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25℃	IFSM	Α		125
Current Squared Time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	l ² t	A ² s		65
Storage Temperature	T _{stg}	$^{\circ}$	-55	~ +150
Junction Temperature	Tj	$^{\circ}$ C	-55 ~ +150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MUR2040FCT	MUR2060FCT
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=10.0A	1.3	1.5
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1		VRM=VRRM T _a =25℃	10	
	IRRM2	uA	VRM=VRRM T _a =125℃	500	
Reverse Recovery Time	Trr	ns	I _F =0.5A I _{RM} =1A I _{RR} =0.25A	50	

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

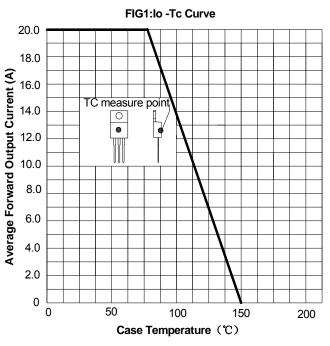
PARAMETER		SYMBOL	UNIT	MUR2040FCT	MUR2060FCT
Thermal Resistance	Between junction and case	R _{eJ-C}	°C/W	2.	.5

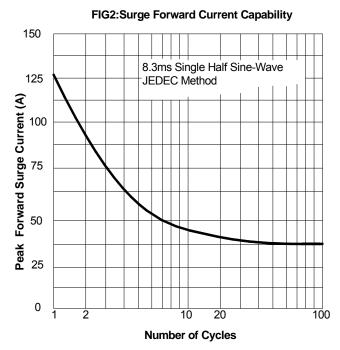


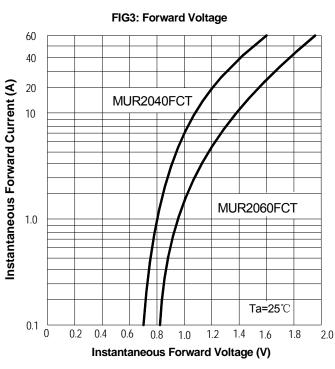
■Ordering Information (Example)

PREFER	PREFERED P/N UNIT WEIGHT(g)		MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR2040FCT	MUR2060FCT	Approximate 1.49	50	1000	5000	Tube

■Characteristics (Typical)







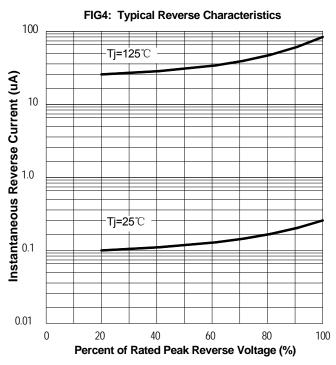
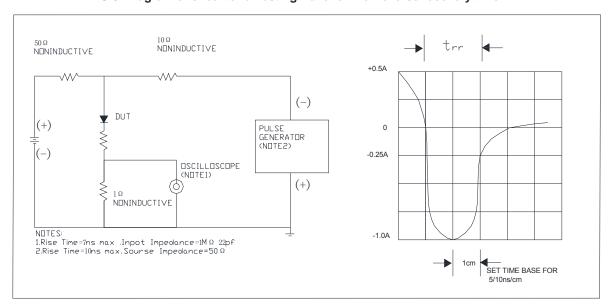
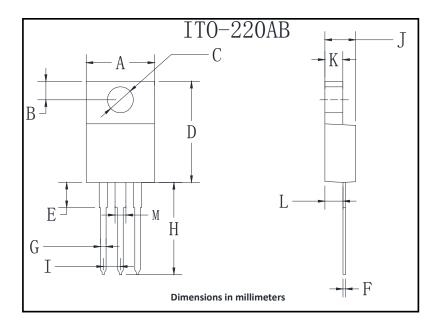




FIG.5 Diagram of circuit and Testing wave form of reverse recovery time



■Outline Dimensions



ITO-220AB				
Dim	Min	Max		
Α	9.7	10.7		
В	2.15	3.25		
С	2.6	3.8		
D	14.4	15.9		
E	3.1	4.5		
F	0.4	0.8		
G	0.4	0.8		
Н	12.7	14.2		
I	1.80	2.95		
J	3.9	5.1		
K	2.1	3.56		
L	2.1	3.2		
М	1.4	1.8		



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