PIN2

PIN2

# MUR1610CT THRU MUR1660CT

# **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)							
PARAMETER	SYMBOL	UNIT	MUR1610CT	MUR1615CT	MUR1620CT	MUR1640CT	MUR1660CT
Device Marking Code			MUR1610CT	MUR1615CT	MUR1620CT	MUR1640CT	MUR1660CT
Repetitive Peak Reverse Voltage	VRRM	V	100	150	200	400	600
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	Ι <sub>Ο</sub>	А	16				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	IFSM	А	100				
Current Squared Time @1ms≤t<8.3ms Tj=25℃,Rating of per diode	l <sup>2</sup> t	A <sup>2</sup> s	41				
Storage Temperature	Tstg	°C	-55 ~ +150				
Junction Temperature	Тј	°C	-55 ~ +150				

· PIN1

· PIN2

· PIN3

PINA PINS

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MUR1610CT	MUR1615CT	MUR1620CT	MUR1640CT	MUR1660CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=8.0A	0.95		1.3	1.7	
Maximum DC reverse current at rated DC blocking voltage	IRRM1		VRM=VRRM T <sub>a</sub> =25℃ 10					
per diode	IRRM2	uA	VRM=VRRM T <sub>a</sub> =125℃	500				
Reverse Recovery Time	Trr	ns	I <sub>F</sub> =0.5A I <sub>RM</sub> =1A I <sub>RR</sub> =0.25A	50				

1/4

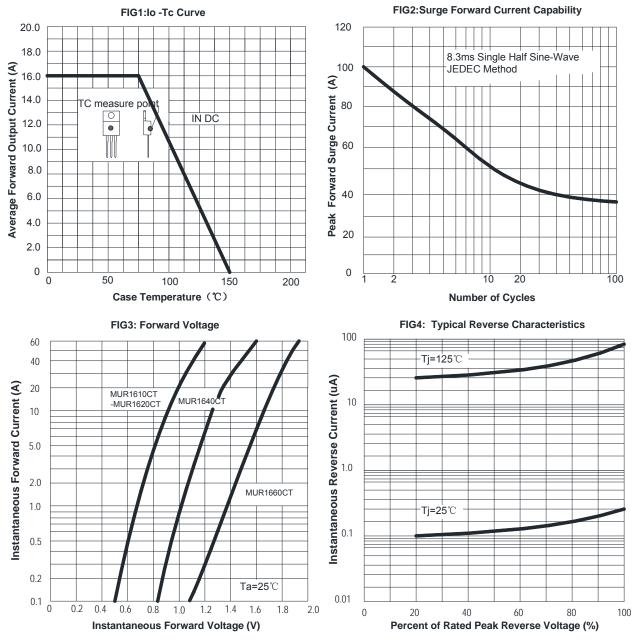
## ■Thermal Characteristics (Ta=25°C Unless otherwise specified)

Р	ARAMETER	SYMBOL	UNIT	MUR1610CT	MUR1615CT	MUR1620CT	MUR1640CT	MUR1660CT
Thermal Resistance	Between junction and case	$R_{_{ extsf{ hetaJ-C}}}$	°C <b>/W</b>			2.0		

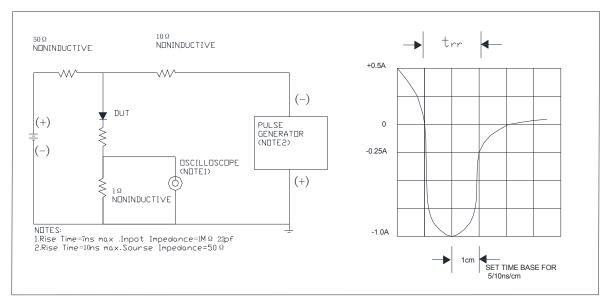
## Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR-CT	Approximate 1.89	50	1000	5000	Tube

# ■Characteristics (Typical)

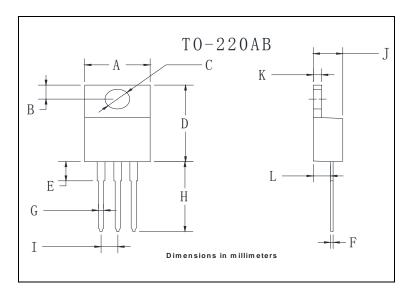






#### FIG.5 Diagram of circuit and Testing wave form of reverse recovery time

## Outline Dimensions



TO-220AB				
Dim	Min	Max		
А	9.5	10.9		
В	2.22	3.27		
С	3.34	4.31		
D	14.5	15.5		
E	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		
К	1.14	1.4		
L	2.14	3.19		

#### Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

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 human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// <a href="http://www.21yangjie.com">www.21yangjie.com</a>, or consult your nearest Yangjie's sales office for further assistance.

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Yangjie manufacturer:

Other Similar products are found below :

MCL4151-TR3 MMBD3004S-13-F RD0306T-H RD0506LS-SB-1H RGP30G-E373 DSE010-TR-E BAQ333-TR BAQ335-TR BAQ33-GS18 BAS1602VH6327XT BAV17-TR BAV19-TR BAV301-TR BAW27-TAP HSC285TRF-E NSVBAV23CLT1G NTE525 1SS181-TP 1SS184-TP 1SS193,LF 1SS193-TP 1SS400CST2RA SBAV99LT3G SDAA13 LL4448-GS18 SHN2D02FUTW1T1G LS4150GS18 LS4151GS08 SMMBD7000LT3G FC903-TR-E 1N4449 1N4934-E3/73 1SS226-TP APT100DL60HJ RFUH20TB3S RGP30G-E354 RGP30M-E3/73 D291S45T MCL4151-TR BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAS33-TAP BAS 70-02V H6327 BAV300-TR BAV303-TR3 BAW27-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP