# MUR1610FCT THRU MUR1660FCT

Ultra-Fast Recovery Rectifier Diodes

### **Features**

- Super-fast recovery time for high efficiency
- Glass passivated chip junction

RLIL&N

- Low leakage current
- High forward surge capability
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

### **Typical Application**

For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer ,computer and telecommunication.

#### **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: Color Band denotes cathode end

#### Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	MUR-FCT					
PARAMETER	Symbol		Conditions	1610	1615	1620	1640	1660	
Repetitive Peak Reverse Voltage	Vrrm	V		100	150	200	400	600	
Average Forward Current	lo	А	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	16					
Surge(Nonrepetitive)Forward Current	Ігѕм	А	60HZ sine wave, 1 cycle, Ta=25℃	150					
Current Squared Time	l <sup>2</sup> t	A²s	1ms≤t<8.3ms Tj=25℃,Rating of per diode	41					
Storage Temperature	Tstg	°C		-55 ~ +150					
Junction Temperature	Tj	°C		-55 ~ +150					

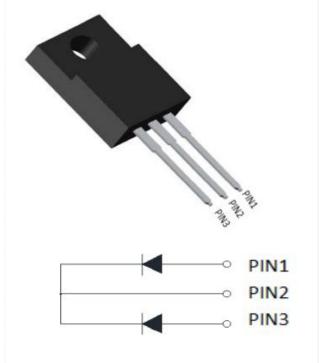
#### Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions		MUR-FCT				
PARAIVIETER	Symbol				1610	1615	1620	1640	1660
Peak Forward Voltage	VFM	V	Іғм=	8.0A	0.95			1.30	1.7
Peak Reverse Current	IRRM1	- μΑ	Vrm=Vrrm	<b>Ta=25</b> ℃			10		
	IRRM2			Ta=125℃			500		
Maximum reverse recovery time	Trr	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0A,I <sub>rr</sub> =0.25A		35				
Thermal Resistance	Rej-c	Rej-c	Between junction and case		2.0				

Revised: 2021-11-29





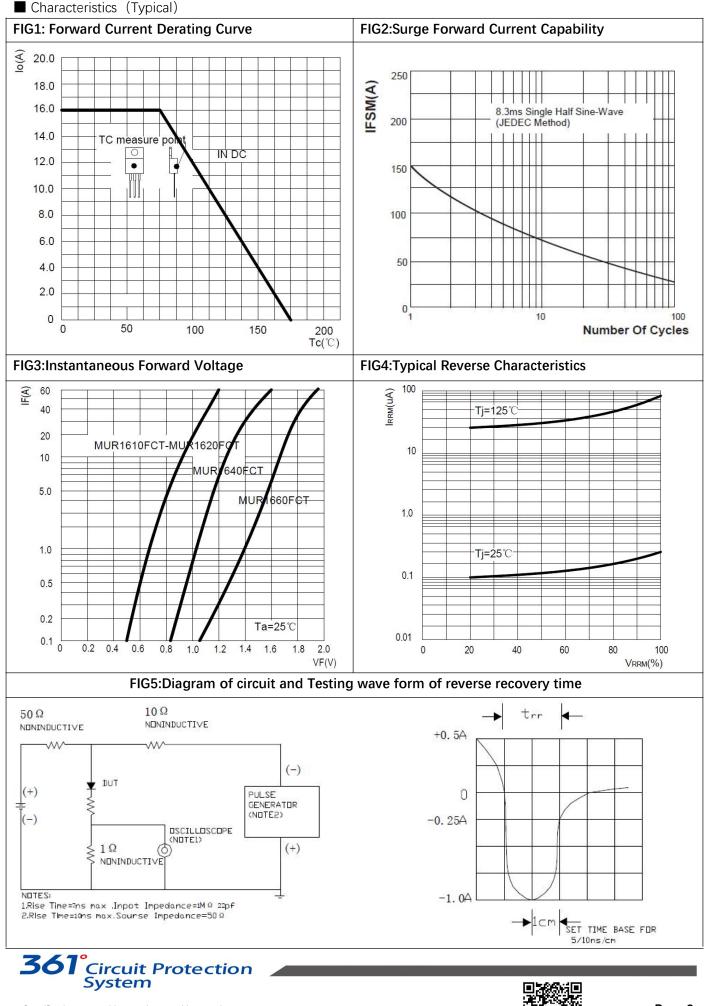








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Specifications are subject to change without notice. Please refer to http://www.ruilon.com.cn for current information.

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Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MUR1610FCT~MUR1660FCT	ITO-220AB	50	1000	5000	Tube	

#### Outline Dimensions

