

SUPER FAST RECTIFIERS Features

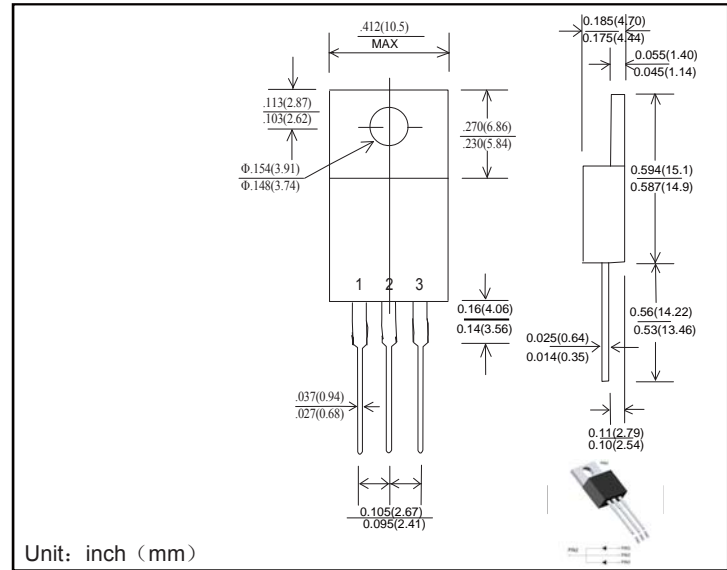
VOLTAGE RANGE: 100--- 600 V
CURRENT:8.0 A

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

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 AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)Single phase

PARAMETER	SYMBOL	UNIT	MUR2010CT	MUR2015CT	MUR2020CT	MUR2040CT	MUR2060CT
Device Marking Code			MUR2010CT	MUR2015CT	MUR2020CT	MUR2040CT	MUR2060CT
Repetitive Peak Reverse Voltage	VRRM	V	100	150	200	400	600
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	Io	A	20				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	IFSM	A	125				
Current Squared Time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	i ² t	A ² s	65				
Storage Temperature	Tstg	°C	-55 ~ +150				
Junction Temperature	Tj	°C	-55 ~ +150				
Maximum instantaneous forward voltage drop per diode IFM=10.0A	VFM	V	0.975		1.3		1.5
Maximum DC reverse current at rated DC blocking voltage per diode	Ta=25°C VRM=VRRM	IRRM1	10				
	Ta=125°C VRM=VRRM	IRRM2	500				
Reverse Recovery Time IRR=0.25A IF=0.5A IRM=1A	Trr	ns	50				
Thermal Resistance	Between junction and case	Rθj-c	°C/W				
			2.0				

Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR2010CT THRU MUR2060CT	Approximate 1.90	50	1000	5000	Tube

RATINGS AND CHARACTERISTIC CURVES

Characteristics (Typical)

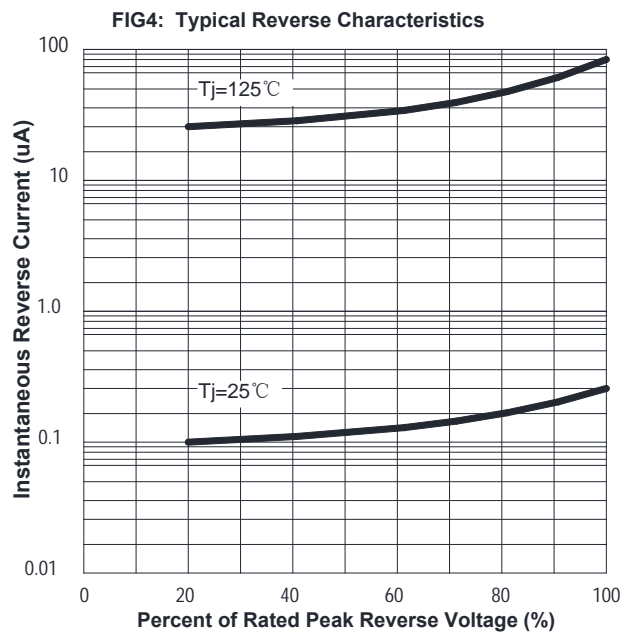
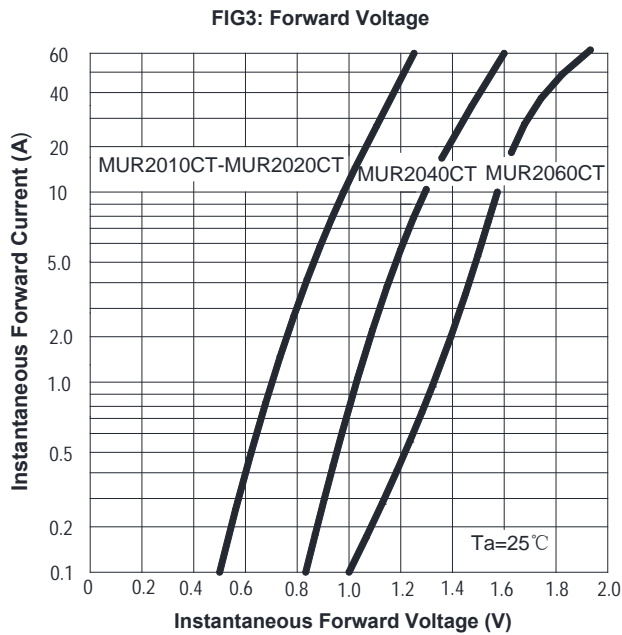
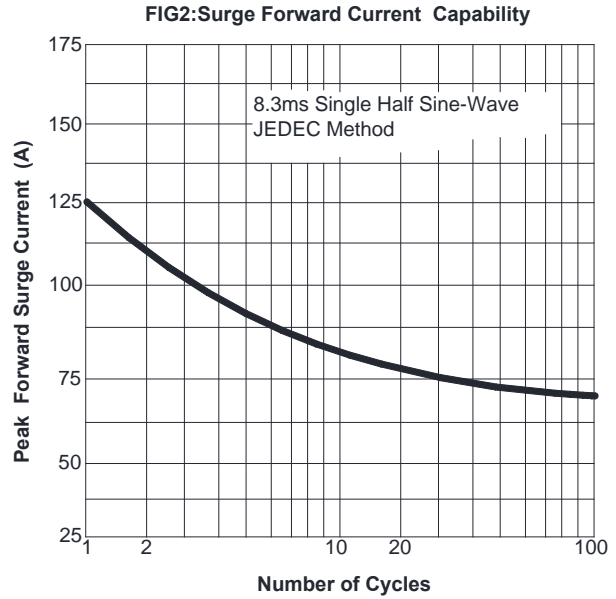
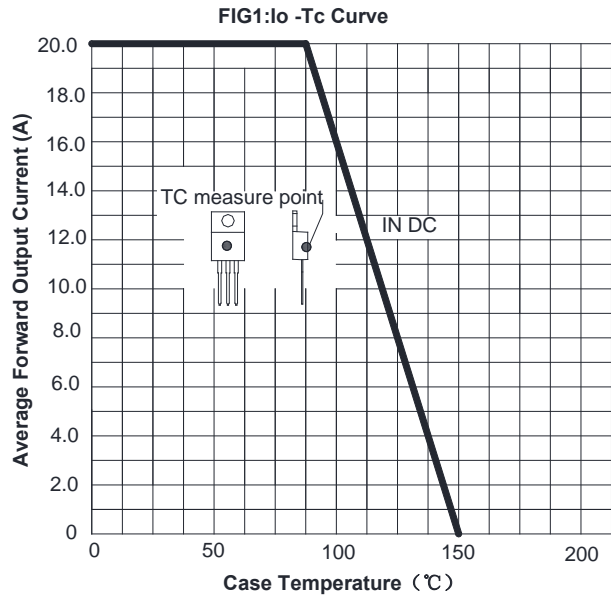


FIG.5 Diagram of circuit and Testing wave form of reverse recovery time

