



Features

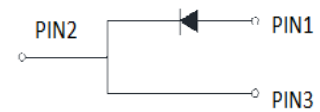
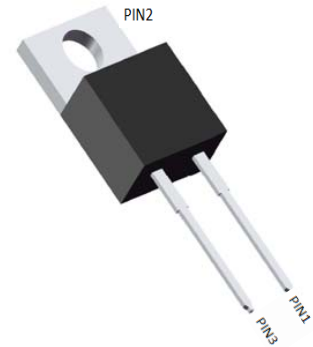
- High frequency operation
- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

- **Package:** TO-220AC
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	MUR810	MUR815	MUR820	MUR840	MUR860
Device marking code			MUR810	MUR815	MUR820	MUR840	MUR860
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	8				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave,1 cycle, Ta=25°C	IFSM	A	100				
Current Squared Time @ 1ms≤t≤8.3ms Tj=25°C	I²t	A²s	41				
Storage Temperature	Tstg	°C	-55 ~ +150				
Junction Temperature	Tj	°C	-55 ~ +150				

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MUR810	MUR815	MUR820	MUR840	MUR860
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=8.0A	0.975			1.3	1.5
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	uA	VRM=VRRM Ta=25°C	10				
	I _{RRM2}		VRM=VRRM Ta=125°C	500				
Reverse Recovery Time	T _{rr}	ns	IF=0.5A I _{RM} =1A I _{RR} =0.25A	50				

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

PARAMETER	SYMBOL	UNIT	MUR810	MUR815	MUR820	MUR840	MUR860
Thermal Resistance Between junction and case	R _{B-J-C}	°C/W	2.0				



Characteristics (Typical)

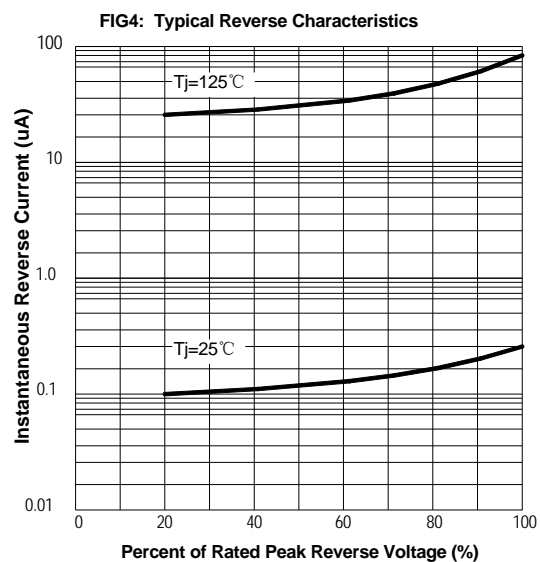
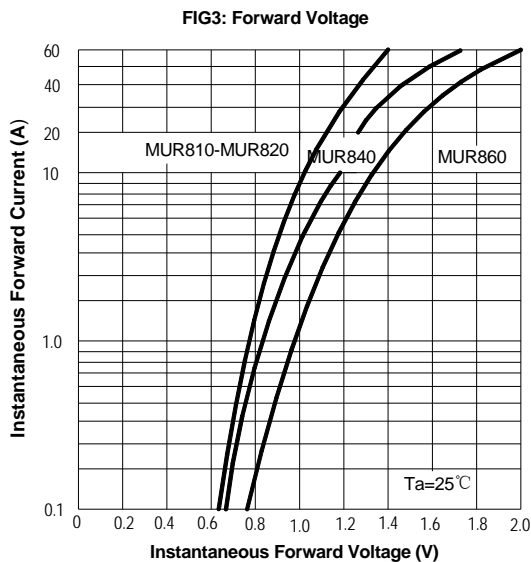
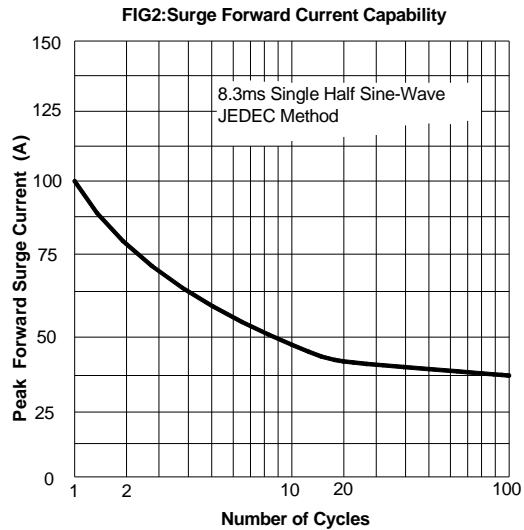
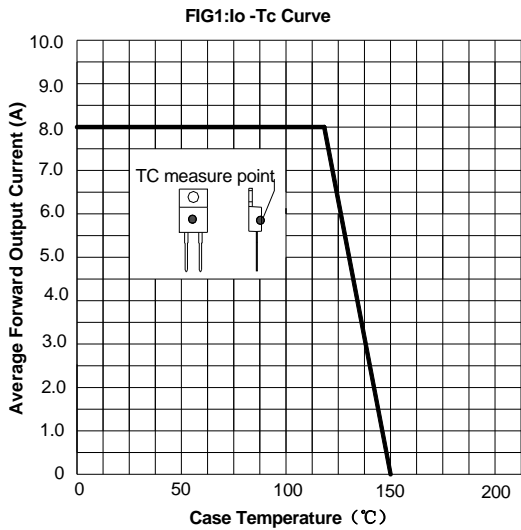
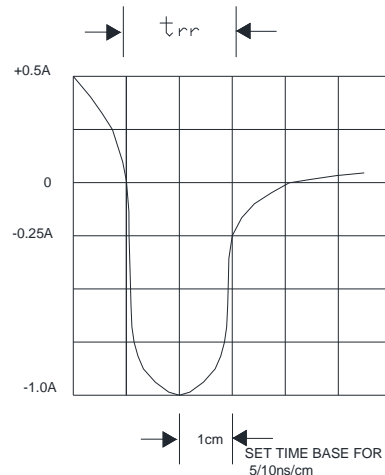
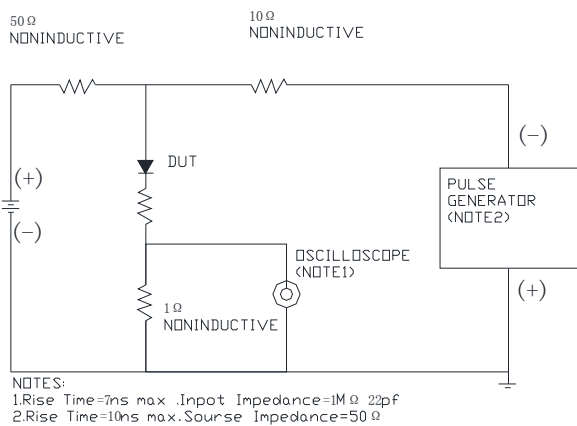
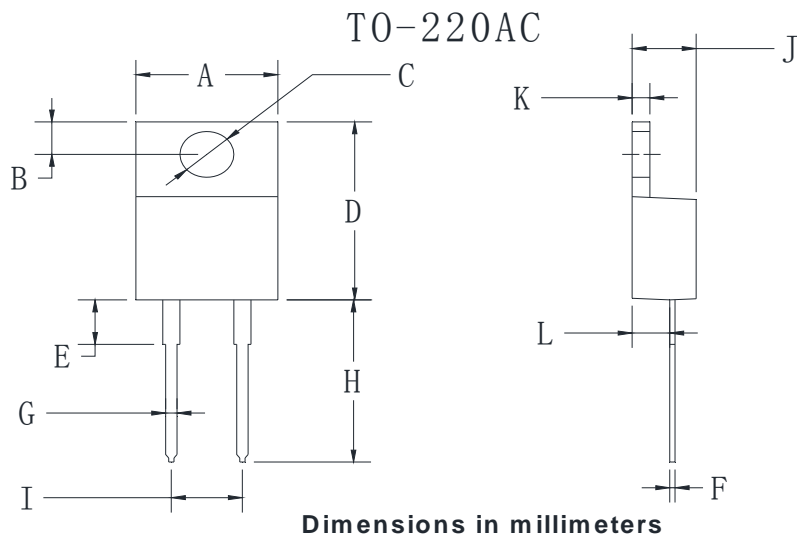


FIG.5 Diagram of circuit and Testing wave form of reverse recovery time





Outline Dimensions



TO-220AC		
Dim	Min	Max
A	9.5	10.9
B	2.22	3.27
C	3.34	4.31
D	14.5	15.5
E	3.16	4.46
F	0.28	0.64
G	0.68	0.94
H	13.06	14.62
I	4.55	5.60
J	4.04	5.1
K	1.14	1.4
L	2.14	3.19



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