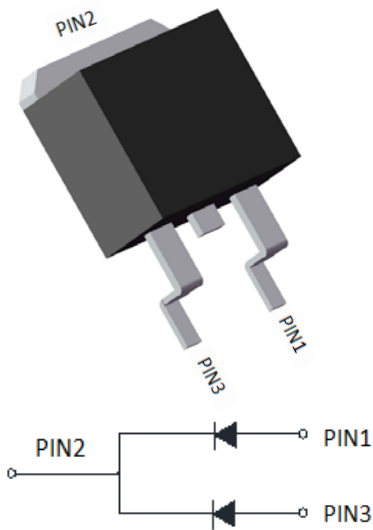**RoHS**
COMPLIANT

Fast Recovery Epi 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

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

Mechanical Data
● **Package**: TO-263
  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 (T$_a$=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	MURB2060CT
Device marking code			MURB2060CT
Repetitive Peak Reverse Voltage	V$_{RRM}$	V	600
Average Rectified Output Current @60Hz sine wave, R-load, T$_C$=86℃	I$_O$	A	20
Surge(Non-repetitive)Forward Current @60H$_z$ half sine-wave, 1 cycle, T$_a$=25℃	I$_{FSM}$	A	120
Current Squared Time @1ms≤t≤8.3ms Tj=25℃，	I^{2}t	A^{2}s	59
Storage Temperature	T$_{stg}$	℃	-55 ~ +150
Junction Temperature	T$_j$	℃	-55 ~ +150

■Electrical Characteristics（T$_a$=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MURB2060CT
Maximum instantaneous forward voltage drop per diode	V$_{FM}$	V	I$_{FM}$=10.0A	1.6
Maximum DC reverse current at rated DC blocking voltage per diode	I$_{RRM1}$	uA	VRM=V$_{RRM}$ T$_a$=25℃	10
	I$_{RRM2}$		VRM=V$_{RRM}$ T$_a$=125℃	100
Reverse Recovery Time	Trr	ns	I$_F$=0.5A I$_{RM}$=1A I$_{RR}$=0.25A	35

MURB2060CT

■Thermal Characteristics （Ta=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	MURB2060CT
Thermal Resistance	Between junction and case	RθJ-C	℃/W	2.0

■Ordering Information (Example)

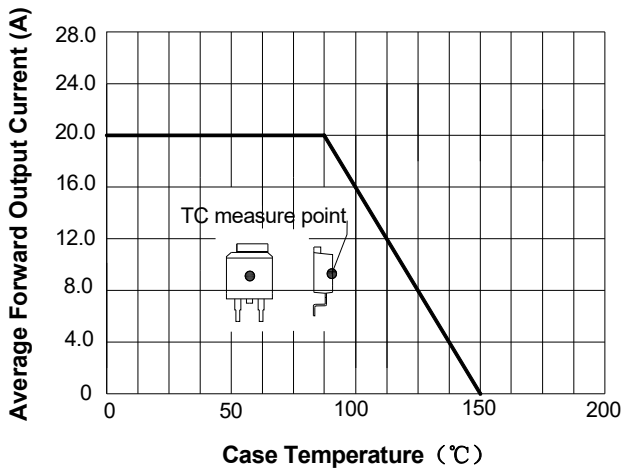| PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MURB2060CT	Approximate 1.43	50	2000	8000	Tube
MURB2060CT	Approximate 1.43	1000	2000	10000	Reel

■Characteristics (Typical)

FIG1:Io -Tc Curve

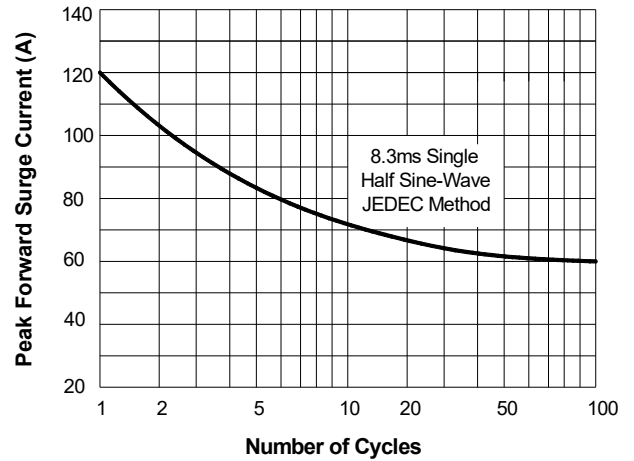### FIG2:Surge Forward Current Capability
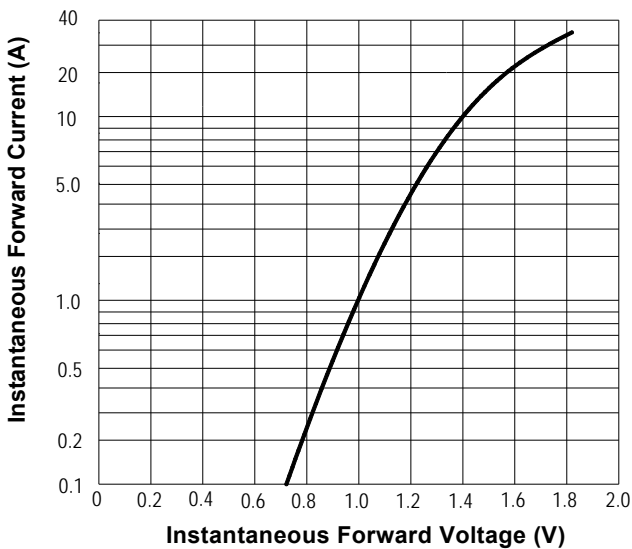

FIG3: Forward Voltage

FIG.4: Instantaneous Reverse Characteristics
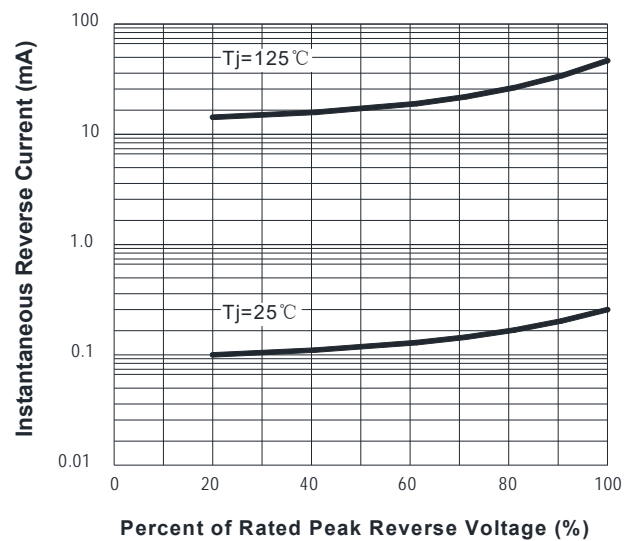
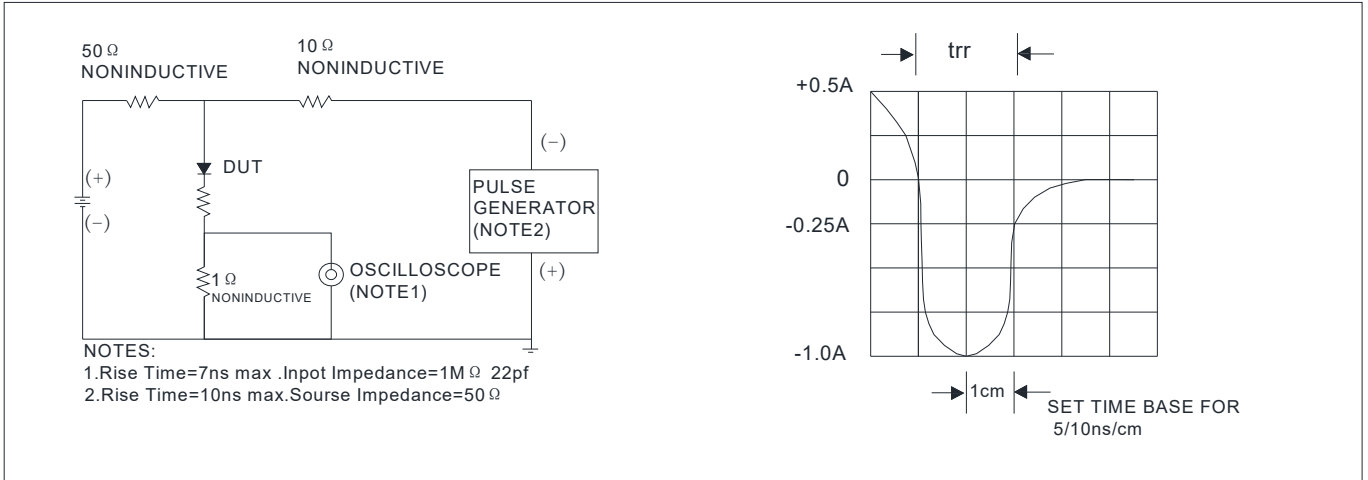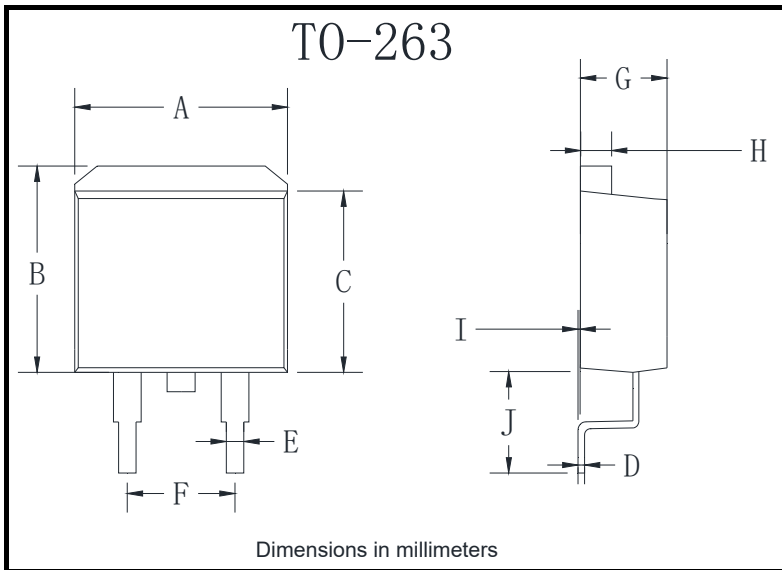**FIG.5: Diagram of circuit and Testing wave form of reverse recovery time**

NOTES:
1.Rise Time=7ns max .Inpot Impedance=1M Ω 22pf
2.Rise Time=10ns max.Sourse Impedance=50 Ω

■**Outline Dimensions**

TO-263

Dimensions in millimeters

TO-263		
Dim	Min	Max
A	9.5	11.5
B	9.7	10.5
C	8.4	9.0
D	0.28	0.64
E	0.68	0.94
F	4.55	5.6
G	4.04	5.10
H	1.14	1.4
I	0	0.2
J	4.9	6.05

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