



Ultra-Fast Recovery Diodes

Features

- Low forward Voltage drop
- Fast reverse recovery time
- High frequency operation
- Adopt GPP chip.
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Passivation 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:** ITO-220AC
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:**

			MUR10A60F
Device marking code			MUR10A60F
Repetitive Peak Reverse Voltage	V_{RRM}	V	600
Average Rectified Output Current @60Hz sine wave, R-load, T_c (FIG.1)	I_O	A	10
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_j=25$	I_{FSM}	A	260
Current Squared Time @1ms≤t≤8.3ms $T_j=25$	I^2t	A ² s	280.5
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	T_j		-55 ~ +150
Typical Junction capacitance @4V,1MHz	C_j	pF	73

Mounting torque



MUR10A60F

■Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=10$	-	-	1.6
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	$V_{RM}=V_{RRM}$ $T_j=25$	-	-	5.0
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_j=125$	-	-	100
Reverse Recovery Time	T_{RR}	ns	$I_F=0.5A$ $I_{RM}=1A$ $I_{RR}=0.25A$	-	-	50

■Thermal Characteristics $T_j=25$ Unless otherwise specified

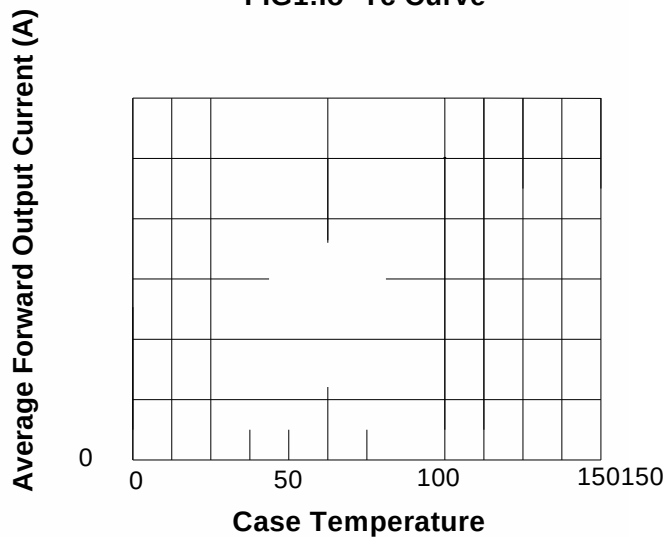
PARAMETER		SYMBOL	UNIT	MUR10A60F
Typical Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	4.0
	Between junction and Air	$R_{\theta J-A}$	/W	30

■Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR10A60F	Approximate 1.6	50	1000	5000	Tube

■Characteristics (Typical)

FIG1: I_o - T_c Curve



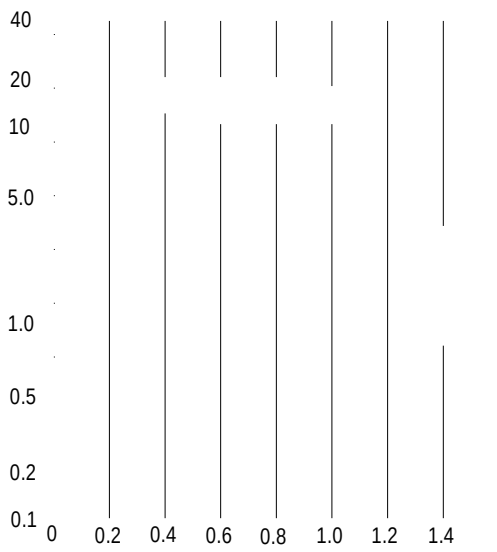
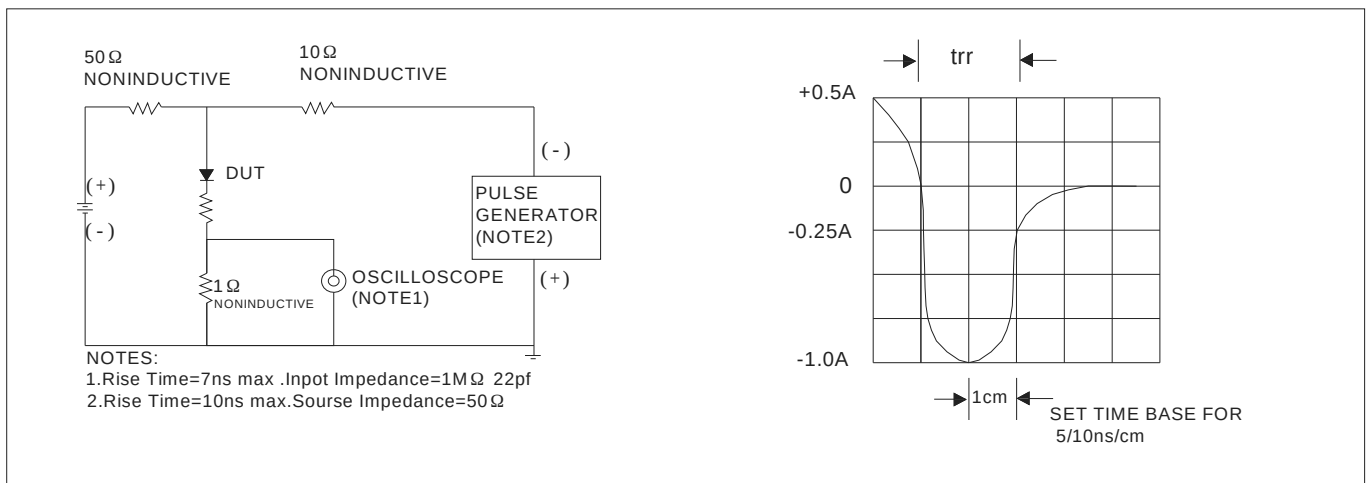


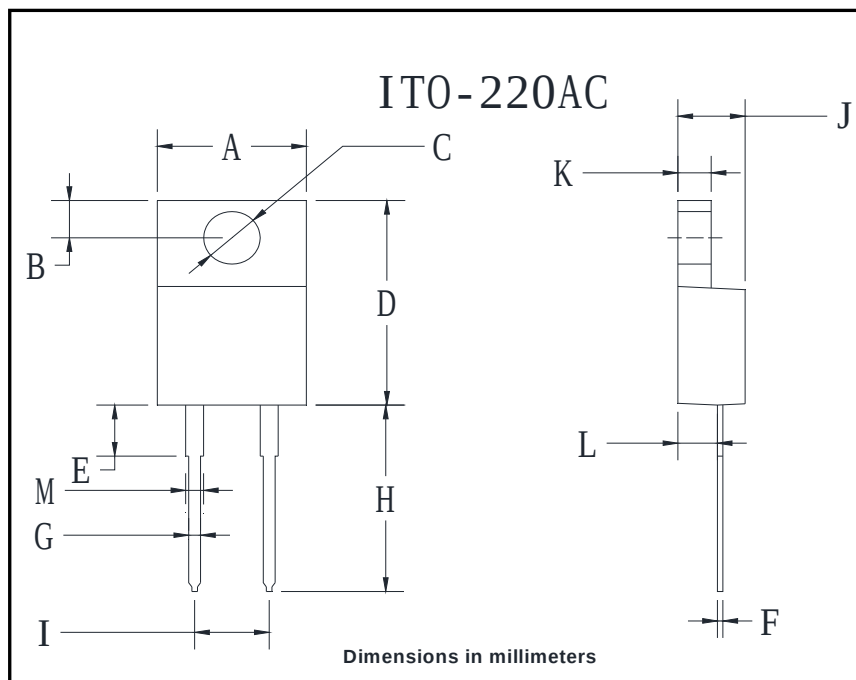
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





MUR10A60F

■Outline Dimensions



ITO-220AC		
Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.5	4.1
F	0.45	0.75
G	0.45	0.75
H	13.35	14.15
I	4.97	5.23
J	4.3	4.8
K	2.5	2.74
L	2.58	2.82
M	1.03	1.43

