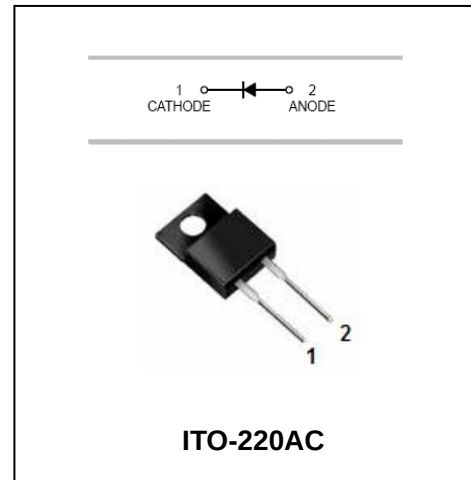


Super Fast Rectifiers

MUR1020F---MUR1060F

FEATURES

- Low cost.
- Low Leakage.
- Low forward voltage drop.
- High current capability.
- Easily cleaned with Alcohol, Isopropanol and Similar solvents.
- The plastic material carries U/L recognition 94V-0.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MUR 1020F	MUR 1040F	MUR 1060F	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	200	400	600	V
V_{RMS}	RMS Voltage	140	280	420	V
V_{DC}	DC Blocking Voltage	200	400	600	V
$I_{F(AV)}$	Average Forward Rectified Current $T_A=100^\circ\text{C}$	10			A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-sine-wave Superimposed on Rsted Load	125			A
T_j T_{stg}	Operating Junction and Storage Temperature Range	-55 to +150			$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS@ $T_a=25^\circ\text{C}$ unless otherwise specified

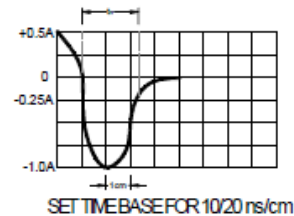
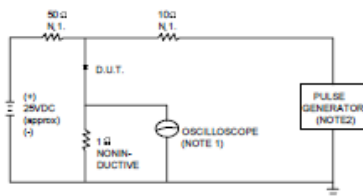
Parameter	Symbol	Test conditions	MUR 1020F	MUR 1040F	MUR 1060F	UNIT
			MAX			
Reverse Current	I _R	V _R =V _{RRM} , T _A =25°C V _R =V _{RRM} , T _A =150°C	5.0 250	10 500		μ A
Forward Voltage	V _F	I _F =10A	0.975	1.3	1.5	V
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A, I _{rr} =0.25A	25	50		ns

Super Fast Rectifiers

MUR1020F---MUR1060F

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. RISE TIME = 7ns MAX INPUT IMPEDANCE = $1\text{M}\Omega$, 22pF.
2. RISE TIME = 10ns MAX SOURCE IMPEDANCE = 50Ω .

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

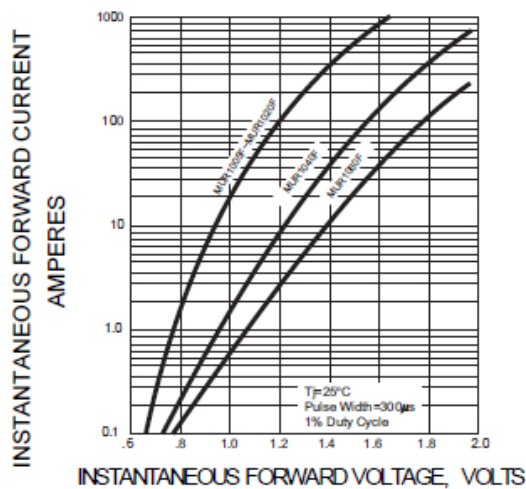


FIG.3 – PEAK FORWARD SURGE CURRENT

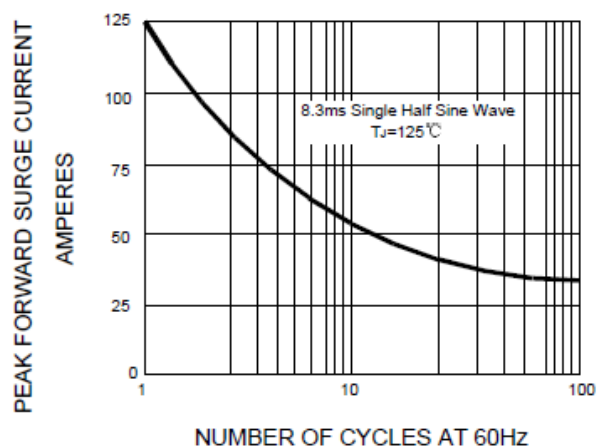
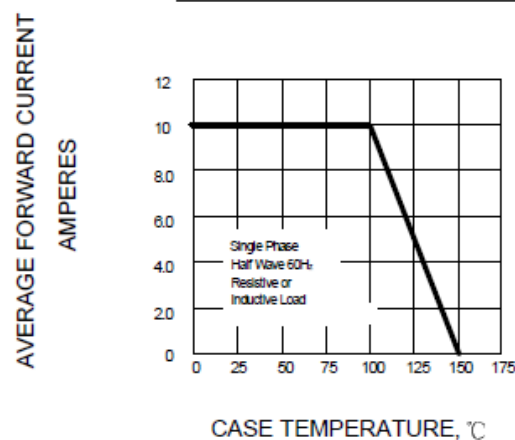


FIG.4 FORWARD DERATING CURVE





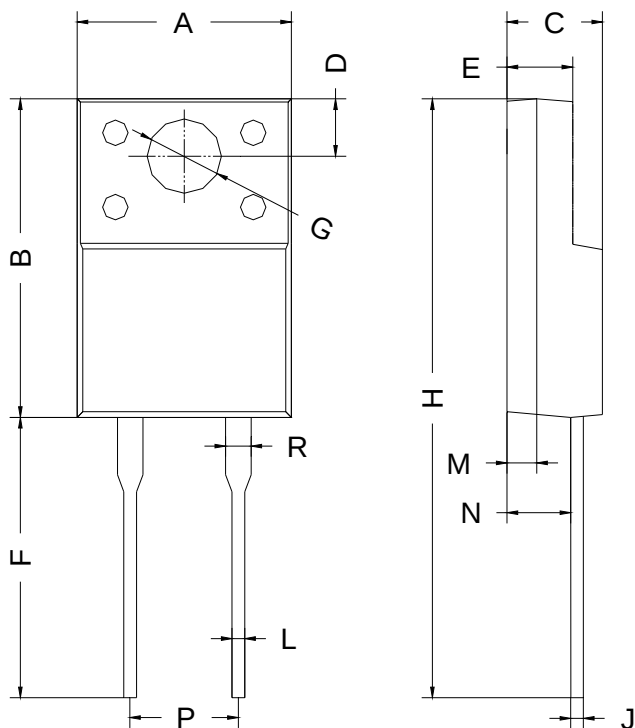
Super Fast Rectifiers

MUR1020F---MUR1060F

PACKAGE OUTLINE

Plastic surface mounted package

ITO-220AC



ITO-220AC		
Dim	Min	Max
A	9.90	10.30
B	14.80	15.20
C	4.50 Typical	
D	2.70 Typical	
E	2.80	3.20
F	13.00	13.40
G	3.2 Typical	
H	28.00	28.40
J	0.60 Typical	
L	0.50	0.75
M	1.40 Typical	
N	2.90	3.10
P	5.00	5.20
R	1.20 Typical	
All Dimensions in mm		