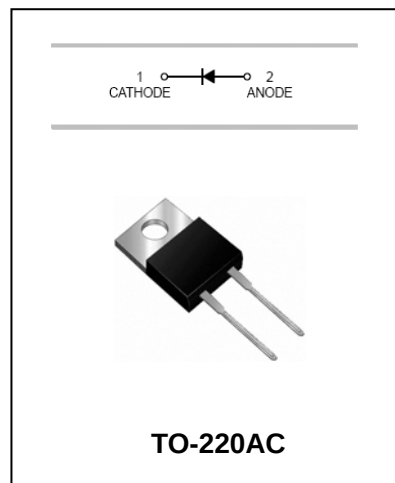


Super Fast Rectifiers

MUR1020---MUR1060

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 1020	MUR 1040	MUR 1060	Unit
V_{RRM}	Recurrent 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 @ $T_A=100^{\circ}C$	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			$^{\circ}C$

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

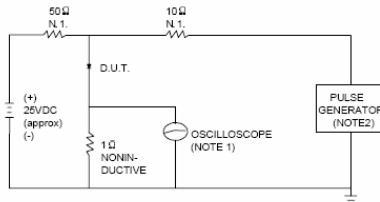
Parameter	Symbol	Test conditions	MUR1020	MUR1040	MUR1060	UNIT
			MAX			
Reverse Current	I _R	V _R =V _{RRM} , T _A =25°C V _R =V _{RRM} , T _A =150°C	5.0 250	10 500		μ A
Forward Voltage	V _F	I _F =10A	0.975	1.3	1.5	V
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A, I _{rr} =0.25A	25	50		ns

Super Fast Rectifiers

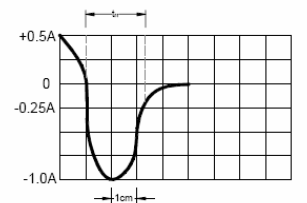
MUR1020---MUR1060

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 .



SET TIME BASE FOR 10/20 ns/cm

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

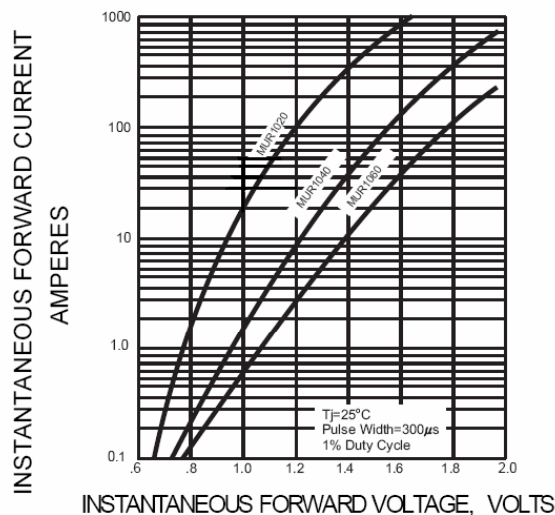


FIG.3 – PEAK FORWARD SURGE CURRENT

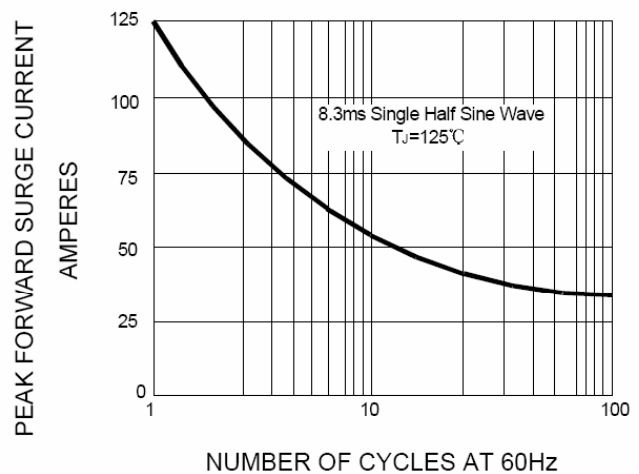
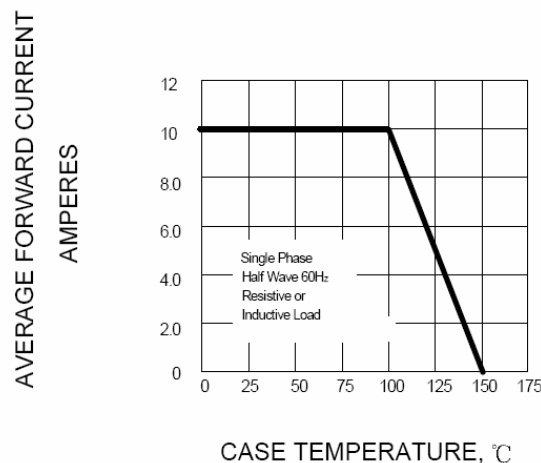


FIG.4-FORWARD DERATING CURVE



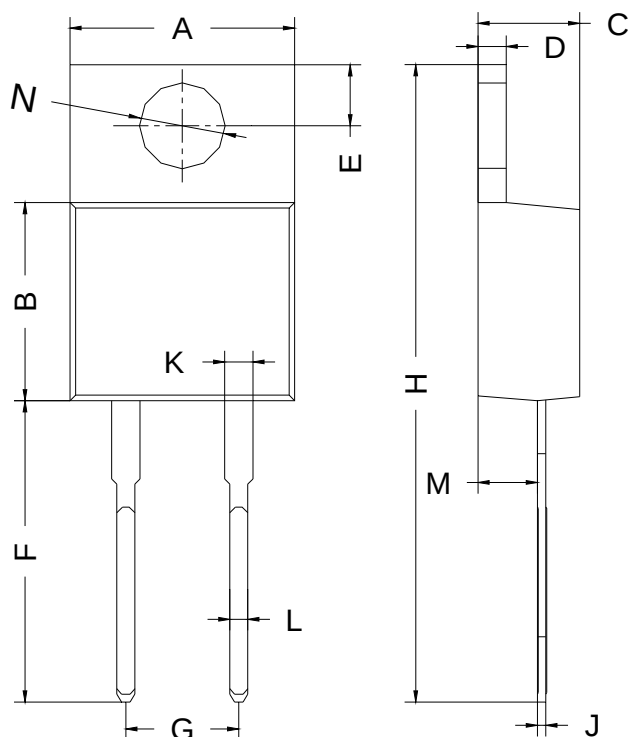
Super Fast Rectifiers

MUR1020---MUR1060

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AC



TO-220AC		
Dim	Min	Max
A	9.80	10.30
B	8.70	9.10
C	4.57 Typical	
D	1.27 Typical	
E	2.64	2.84
F	13.14	13.74
G	4.98	5.18
H	28.03	28.83
J	0.38 Typical	
K	1.22	1.32
L	0.71	0.91
M	2.50 Typical	
N	3.86 Typical	
All Dimensions in mm		