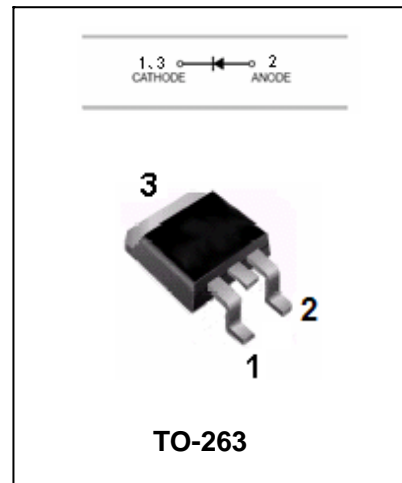


Super Fast Rectifiers

MUR1020B---MUR1060B

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 1020B	MUR 1040B	MUR 1060B	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 Rstcd 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	MUR1020B	MUR1040B	MUR1060B	UNIT
			MAX			
Reverse Current	I_R	$V_R=V_{RRM}, T_A=25^{\circ}C$ $V_R=V_{RRM}, T_A=150^{\circ}C$	5.0 250	10 500		μA
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

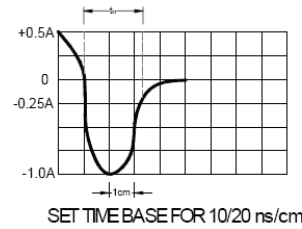
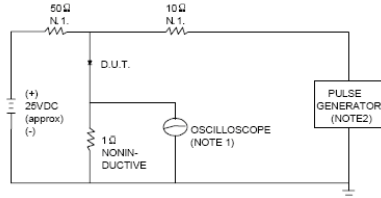


Super Fast Rectifiers

MUR1020B---MUR1060B

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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



NOTES:1.RISE TIME = 7ns MAX.INPUT IMPEDANCE = 1MΩ. 22pF.
2.RISE TIME = 10ns MAX.SOURCE IMPEDANCE=50 Ω.

FIG.2 -- TYPICAL FORWARD CHARACTERISTIC

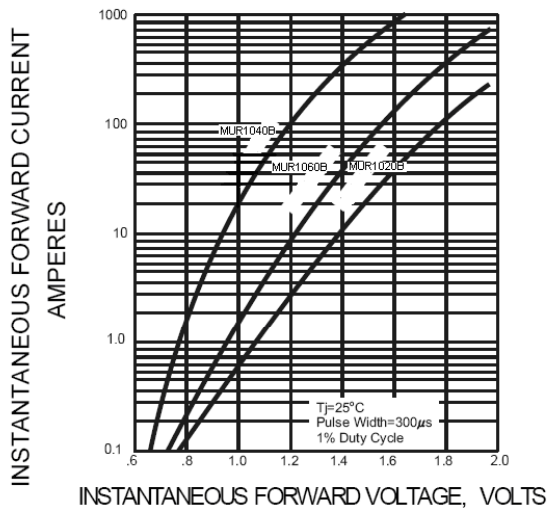


FIG.3 -- PEAK FORWARD SURGE CURRENT

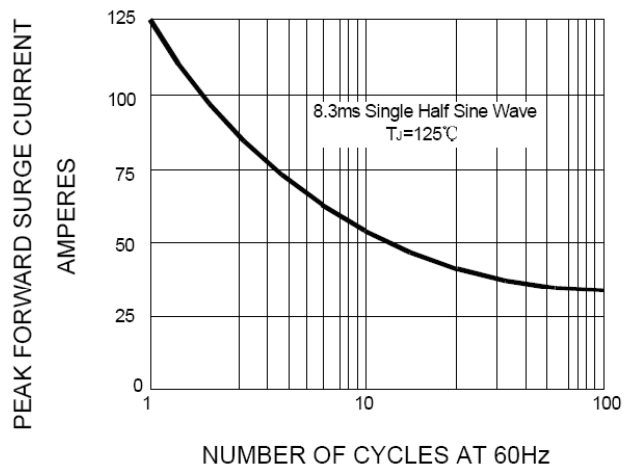
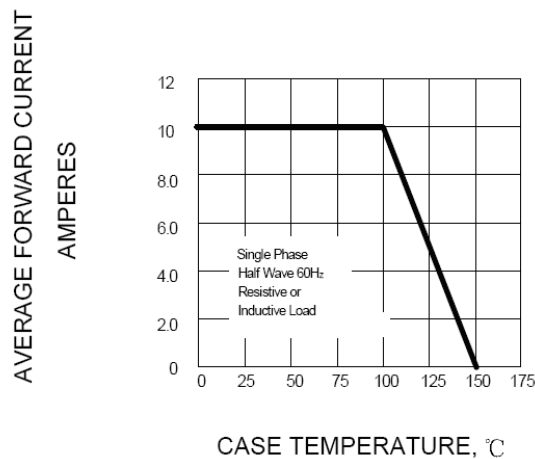


FIG.4 FORWARD DERATING CURVE





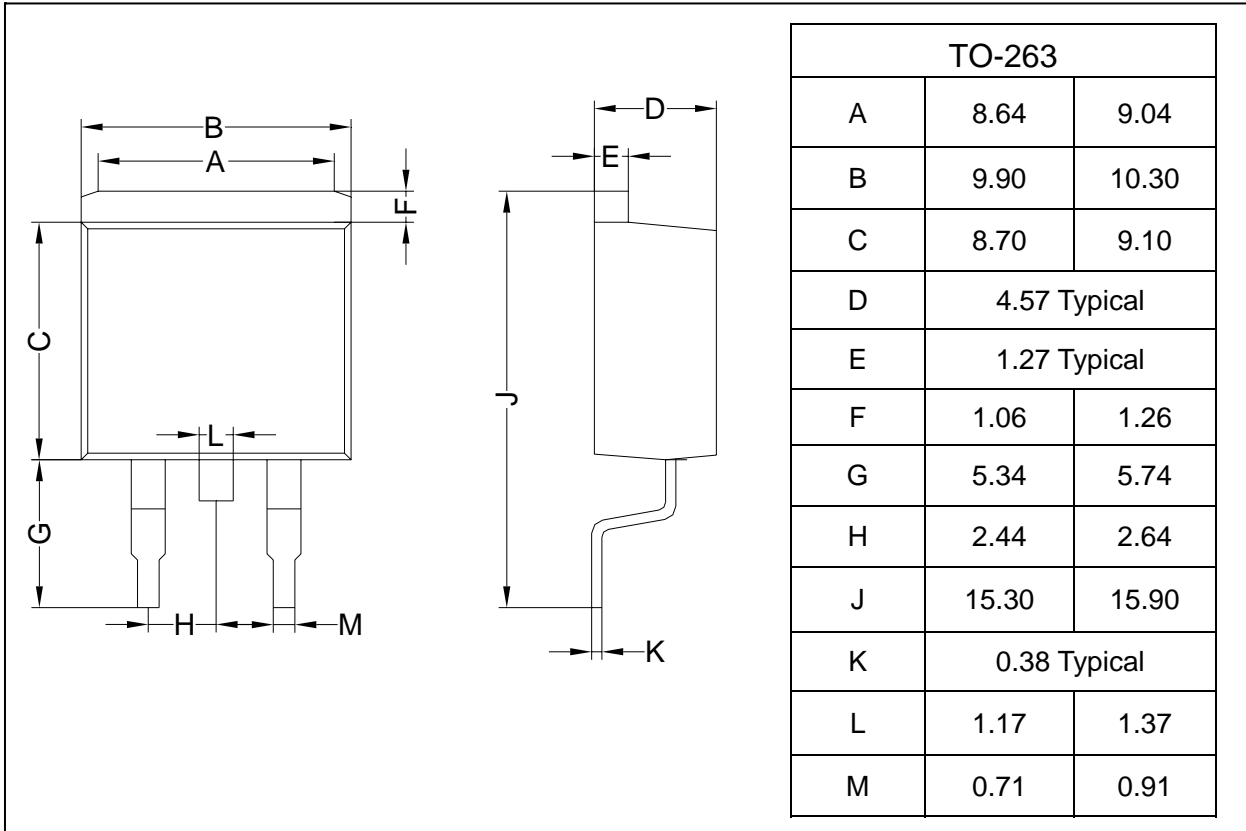
Super Fast Rectifiers

MUR1020B---MUR1060B

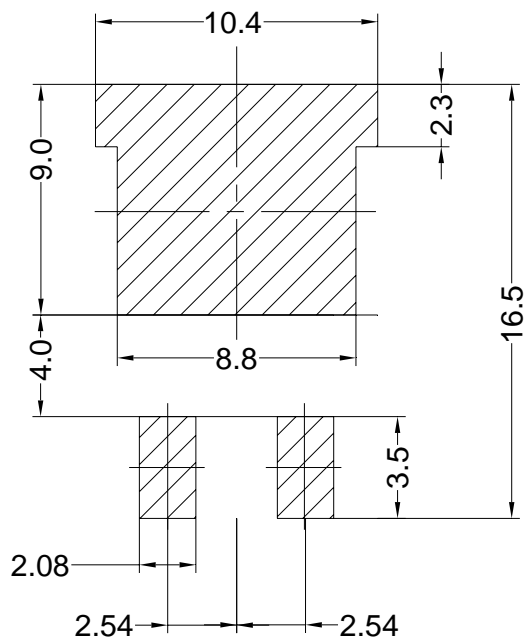
PACKAGE OUTLINE

Plastic surface mounted package

TO-263



SOLDERING FOOTPRINT



Unit:mm