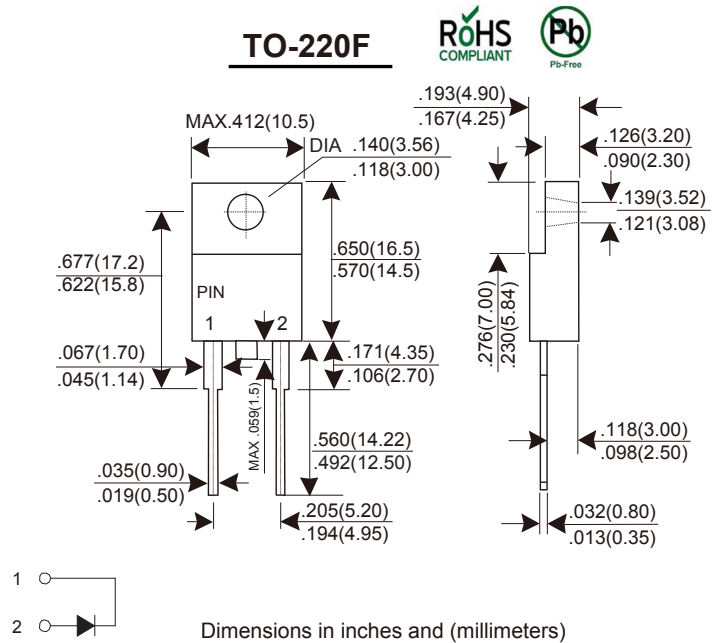




Features

- 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 1005 F	MUR 1010 F	MUR 1015 F	MUR 1020 F	MUR 1030 F	MUR 1040 F	MUR 1060 F	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	50	100	150	200	300	400	600	V
V_{RMS}	RMS Voltage	35	70	105	140	210	280	420	V
V_{DC}	DC Blocking Voltage	50	100	150	200	300	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
$R_{\theta JA}$	Typical Thermal Resistance Junction to ambient	50							$^{\circ}C/W$
$T_j T_{stg}$	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	MUR1005F – MUR1020F	MUR1030F – MUR1040F	MUR 1060F	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	$I_F=10A$	0.98	1.3	1.5	V
Reverse Recovery Time	t_{rr}	$I_F=0.5A, I_R=1A, I_{rr}=0.25A$	25	50		ns



Ordering Information

Part Number	Package	Shipping	Marking Code
MUR1005F	TO-220F	50/Tube	MUR1005F
MUR1010F	TO-220F	50/Tube	MUR1010F
MUR1015F	TO-220F	50/Tube	MUR1015F
MUR1020F	TO-220F	50/Tube	MUR1020F
MUR1030F	TO-220F	50/Tube	MUR1030F
MUR1040F	TO-220F	50/Tube	MUR1040F
MUR1060F	TO-220F	50/Tube	MUR1060F

Typical Characteristics @ Ta=25°C unless otherwise specified

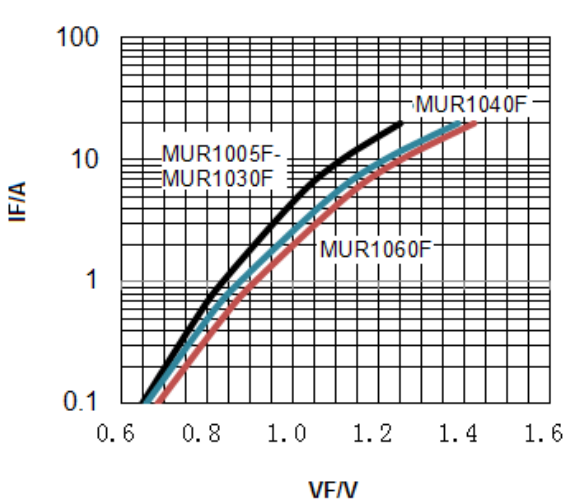


Fig.1: Typical Forward Characteristics

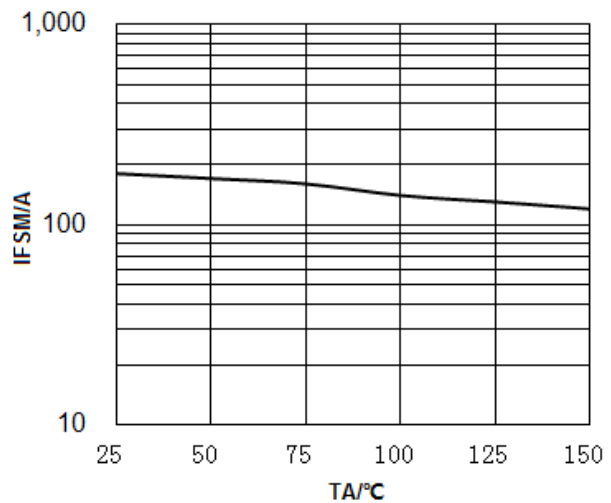


Fig.2- Derating Curve(IFSM-TA)

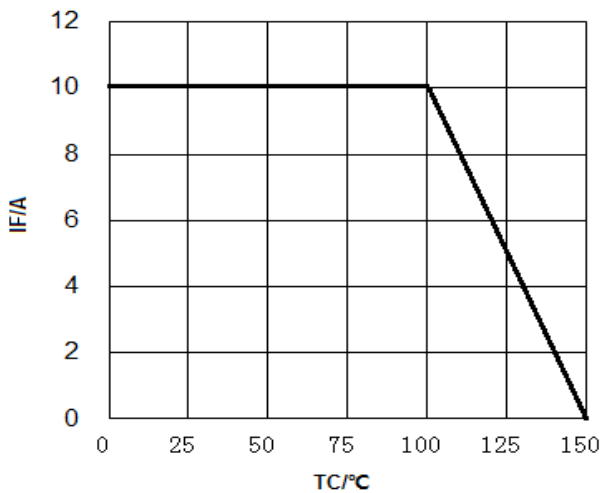


Fig.3 - Forward Current Derating Curve

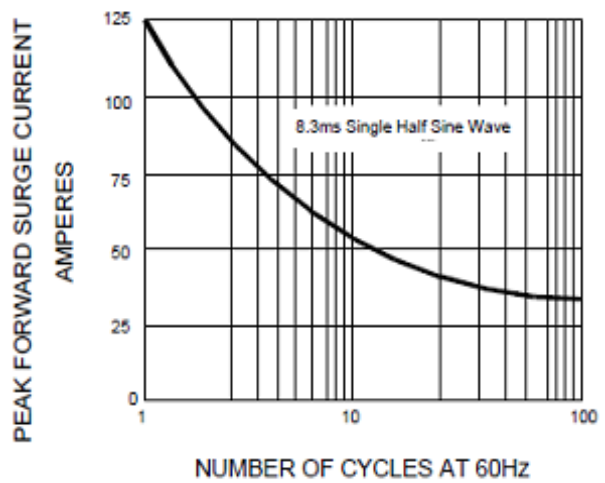


FIG 4. Peak Forward Surge Current