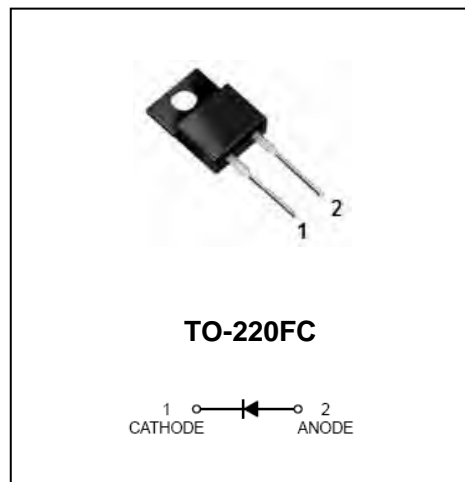


## Super Fast Rectifiers

### FEATURES

- Low cost.
- Diffused Junction.
- Low leakage.
- Low forward voltage drop.
- High current capability.
- Easily cleaned with Alcohol, Isopropanol and Similar solvents.



### MAXIMUM RATING (operating temperature range applies unless otherwise specified)

Symbol	Parameter	MUR1620F	MUR1640F	MUR1660F	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	16			A
$I_{FSM}$	Peak Forward Surge Current 8.3ms	200			A
$T_j$ $T_{stg}$	Operating Junction and Storage Temperature Range	-65 to +150			°C

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

Parameter	Symbol	Test conditions	MUR1620F	MUR1640F	MUR1660F	UNIT
Reverse Current	$I_R$	$V_R=V_{RRM}, T_A=25^\circ\text{C}$ $V_R=V_{RRM}, T_A=150^\circ\text{C}$	10 500			$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=16\text{A}$	1.00	1.30	1.70	V
Reverse Recovery Time	$t_{rr}$	$I_F=0.5\text{A}, I_R=1\text{A},$ $I_{rr}=0.25\text{A}$	35			ns

## TYPICAL CHARACTERISTICS (@ Ta=25°C unless otherwise specified)

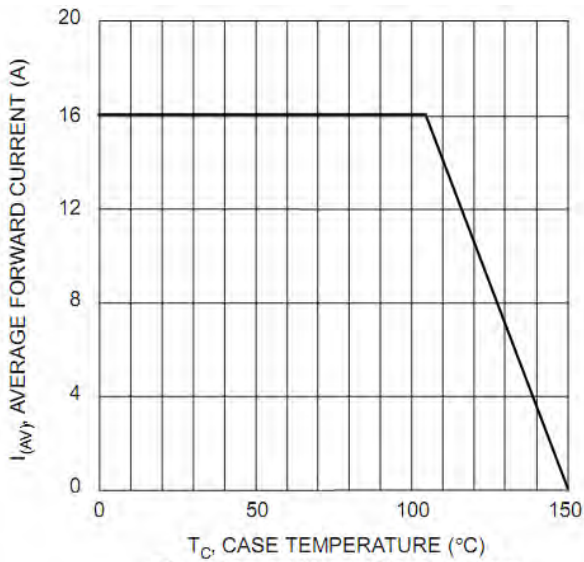


Fig. 1 Forward Current Derating Curve

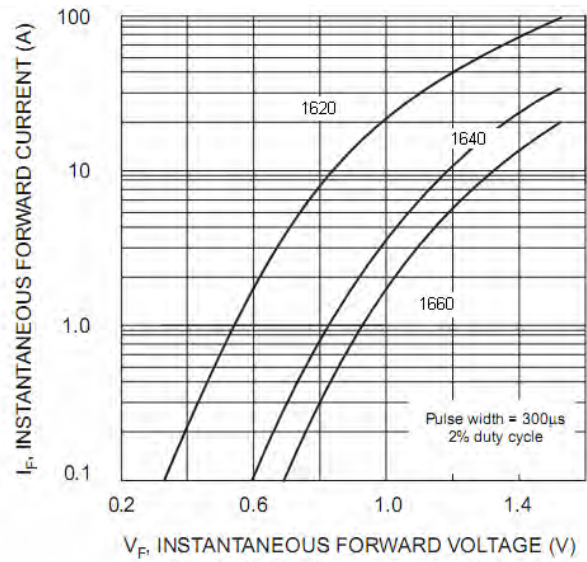


Fig. 2 Typical Forward Characteristics

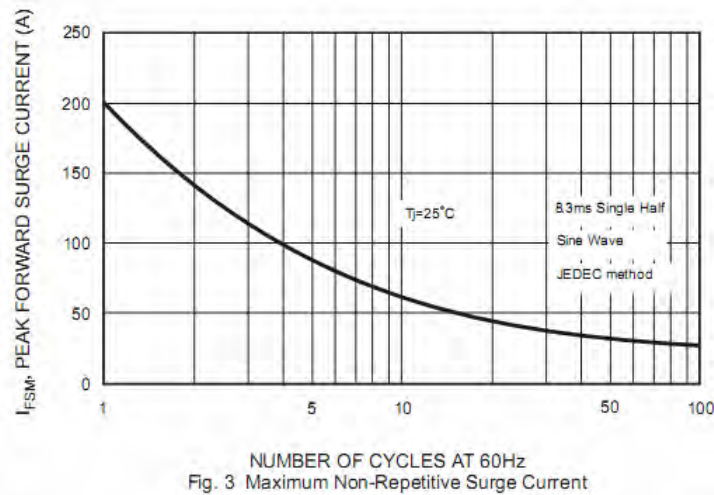


Fig. 3 Maximum Non-Repetitive Surge Current

## PACKAGE OUTLINE

Plastic surface mounted package

TO-220FC

