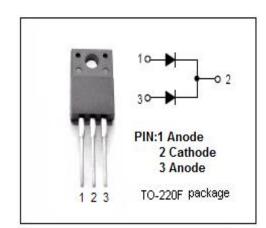


# **Schottky Barrier Rectifier**

## **MBR20100FCT**

#### **FEATURES**

- · With TO-220F packaging
- High Junction Temperature Capability
- · Low forward voltage, high current capability
- · High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



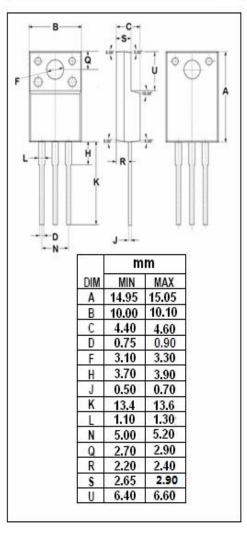
## **APPLICATIONS**

- Switching power supply
- Free-Wheeling diodes
- Reverse battery protection
- Center tap configuration



## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
V <sub>RRM</sub> V <sub>RMS</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	100 70 100	V
l <sub>F(AV)</sub>	Average Rectified Forward Current	20	Α
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	150	Α
Тл	Junction Temperature	-55~150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-55~175	$^{\circ}$





# **Schottky Barrier Rectifier**

## **MBR20100FCT**

#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case	3.0	°C/W

## **ELECTRICAL CHARACTERISTICS** (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 10A ;Tc= 25 ℃ I <sub>F</sub> = 10A ;Tc= 100 ℃	0.85 0.75	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	$V_R$ = rated $V_{RRM}$ ; Tj= 25 $^{\circ}$ C $V_R$ = rated $V_{RRM}$ ; Tj= 100 $^{\circ}$ C	0.2 20	mA

## **NOTICE:**

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