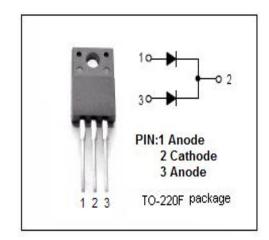


# **Schottky Barrier Rectifier**

# **MBR2060F**

### **FEATURES**

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

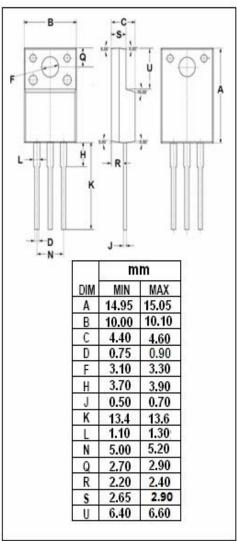


### **APPLICATIONS**

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



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	60	V
lF(AV)	Average Rectified Forward Current @Tc=110℃	20	Α
I <sub>FSM</sub>	Nonrepetitive Peak Surge Current (10ms single half sine-wave superimposed on rated load conditions)	150	Α
TJ	Junction Temperature	-40~150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-40~150	℃



# **Schottky Barrier Rectifier**

**MBR2060F** 

### THERMAL CHARACTERISTICS

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

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 10A;Tj= 25℃ I <sub>F</sub> = 10A;Tj= 125℃	0.7 0.65	V
IR	Maximum Instantaneous Reverse Current	$V_R$ = rated $V_{RRM}$ ; Tj= 25 $^{\circ}$ C $V_R$ = rated $V_{RRM}$ ; Tj=125 $^{\circ}$ C	0.05 50	mA

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