

## Schottky Barrier Rectifier

## MBR1060C

### FEATURES

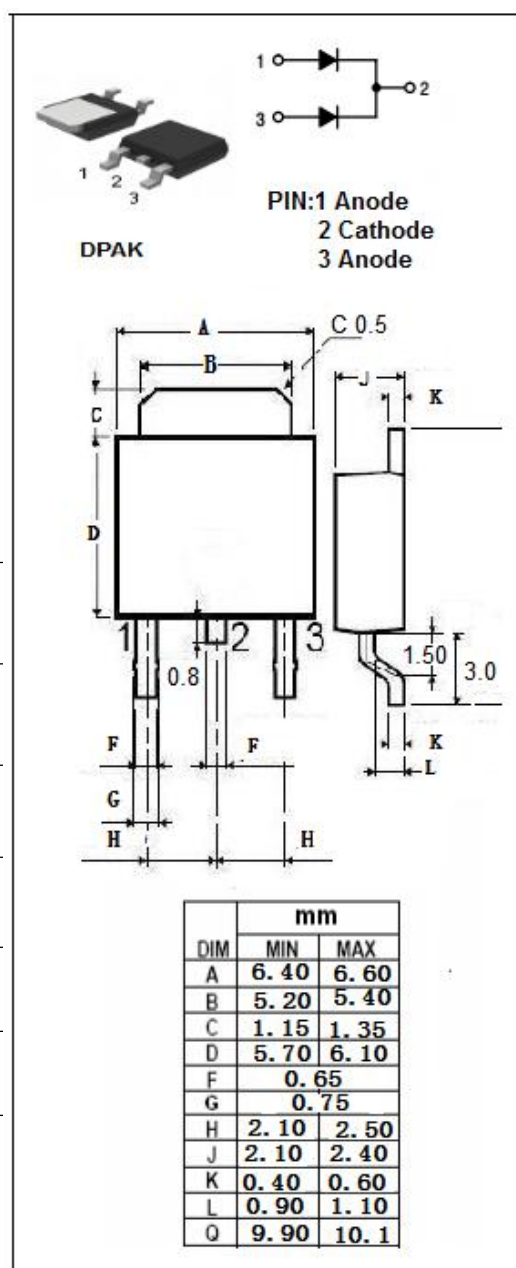
- Low forward voltage drop
- 150°C operating junction temperature
- High surge current capacity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Power Supply Output Rectification
- Power Management

### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	60	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	10	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	125	A
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-65~150	°C



**Schottky Barrier Rectifier**
**MBR1060C**
**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	3.2	°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> = 5A ; T <sub>C</sub> = 25°C I <sub>F</sub> = 5A ; T <sub>C</sub> = 125°C I <sub>F</sub> = 10A ; T <sub>C</sub> = 25°C I <sub>F</sub> = 10A ; T <sub>C</sub> = 125°C	0.75 0.65 0.9 0.8	V
I <sub>R</sub>	Maximum Instantaneous Reverse Current	Rated DC Voltage, T <sub>C</sub> = 25°C Rated DC Voltage, T <sub>C</sub> = 125°C	0.1 15	mA

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