

### **INCHANGE SEMICONDUCTOR**

## **Schottky Barrier Rectifier**

# **MBR1035CT**

#### FEATURES

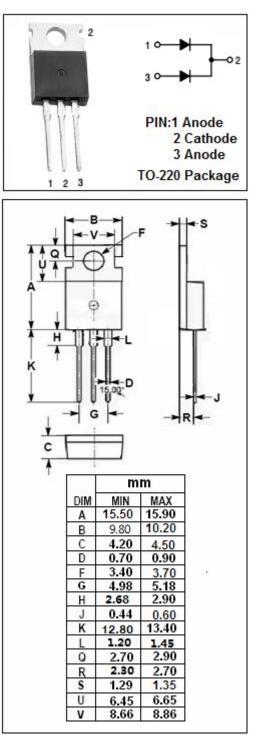
- Schottky Barrier Chip
- Low Power Loss/High Efficiency
- High current capability, low forward voltage drop
- High surge capability
- · Guardring for overvoltage protection
- High temperature soldering guaranteed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

#### **APPLICATIONS**

• Designed for low-voltage, high frequency inverters, free wheeling and polarrity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)						
SYMBOL	PARAMETER	VALUE	UNIT			
V <sub>RRM</sub> V <sub>RWM</sub> VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	35	V			
V <sub>R(RMS</sub> )	RMS Reverse Voltage	24.5	V			
I <sub>F(AV)</sub>	Average Rectified Forward Current (Rated V <sub>R</sub> ) T <sub>C</sub> = 105 $^\circ$ C	10	A			
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	125	A			
IRRM	Peak Repetitive Reverse Surge Current (20 μ s, 1.0kHz)	1.0	A			
TJ	Junction Temperature	150	°C			
T <sub>stg</sub>	Storage Temperature Range	-65~150	°C			
dv/dt	Voltage Rate of Change (Rated $V_R$ )	1000	<b>V/</b> µ <b>s</b>			





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### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	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	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	IF= 5A ; Tc= 25 ℃ IF= 5A ; Tc= 125 ℃ IF= 10A ; Tc= 25 ℃	0.70 0.57 0.84	V
IR	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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