

### INCHANGE SEMICONDUCTOR

### **Schottky Barrier Rectifier**

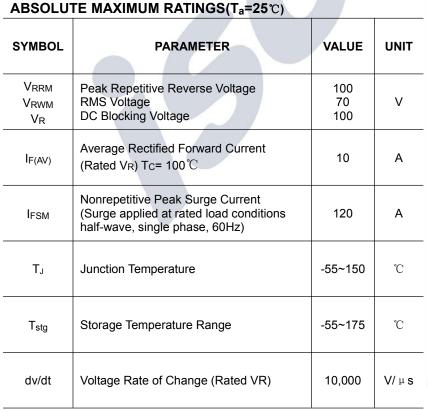
# MBR10100FCT

#### **FEATURES**

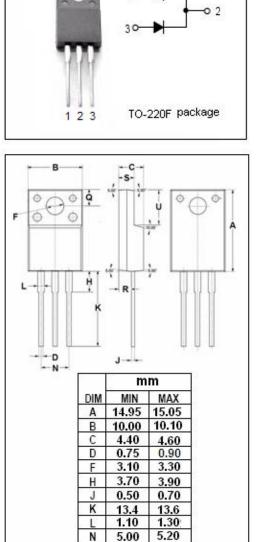
- Low Forward Voltage
- 150℃ Operating Junction Temperature
- Guaranteed Reverse Avalanche
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- Minimum Lot-to-Lot variations for robust device
- performance and reliable operation

### MECHANICAL CHARACTERISTICS

- · Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable



# SOLUTE MAXIMUM PATINGS/T-=25 m



2.90

2.40

2.90

6.60

2.70

2.20

6.40

0

R

S

U

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## **Schottky Barrier Rectifier**

# MBR10100FCT

#### 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≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I <sub>F</sub> = 5A ; T <sub>C</sub> = 125 <sup>°</sup> C I <sub>F</sub> = 5A ; T <sub>C</sub> = 25 <sup>°</sup> C I <sub>F</sub> = 10A ; T <sub>C</sub> = 125 <sup>°</sup> C I <sub>F</sub> = 10A ; T <sub>C</sub> = 25 <sup>°</sup> C	0.75 0.85 0.85 0.95	v
IR	Maximum Instantaneous Reverse Current	Rated DC Voltage, T <sub>C</sub> = 100 $^\circ$ C Rated DC Voltage, T <sub>C</sub> = 25 $^\circ$ C	6.0 0.1	mA



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