## 捷多邦,专业PCB打样工厂,24小时加急出货



SEMICONDUCTOR®

# MBR20S100CT Schottky Barrier Rectifier

WWW.DZSC

### Features

- Low forward voltage drop
- High frequency properties and switching speed
- Guard ring for over-voltage protection

### Applications

- Switched mode power supply
- Freewheeling diodes



1. Anode 2. Cathode 3. Anode

TO-220 Marking: YM20S100CT

### Absolute Maximum Ratings Ta = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	100	V
V <sub>R</sub>	Maximum DC Reverse Voltage	100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @T <sub>C</sub> = 135°C	20	А
I <sub>FSM</sub>	Non-Repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave	200	А
T <sub>J</sub> , T <sub>STG</sub>	Operating Junction and Storage Temperature	-65 to +150	°C

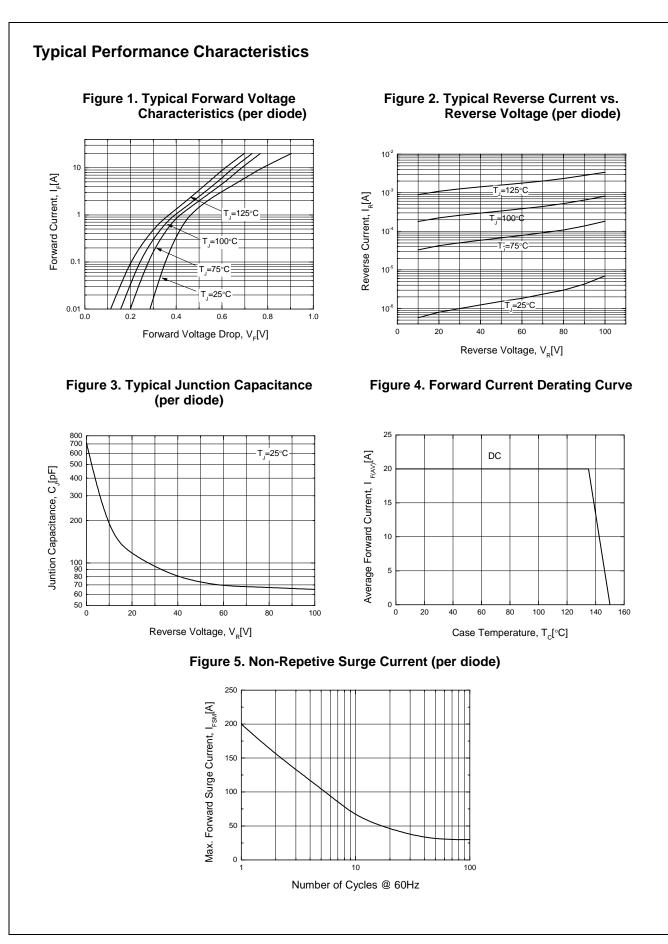
### **Thermal Characteristics**

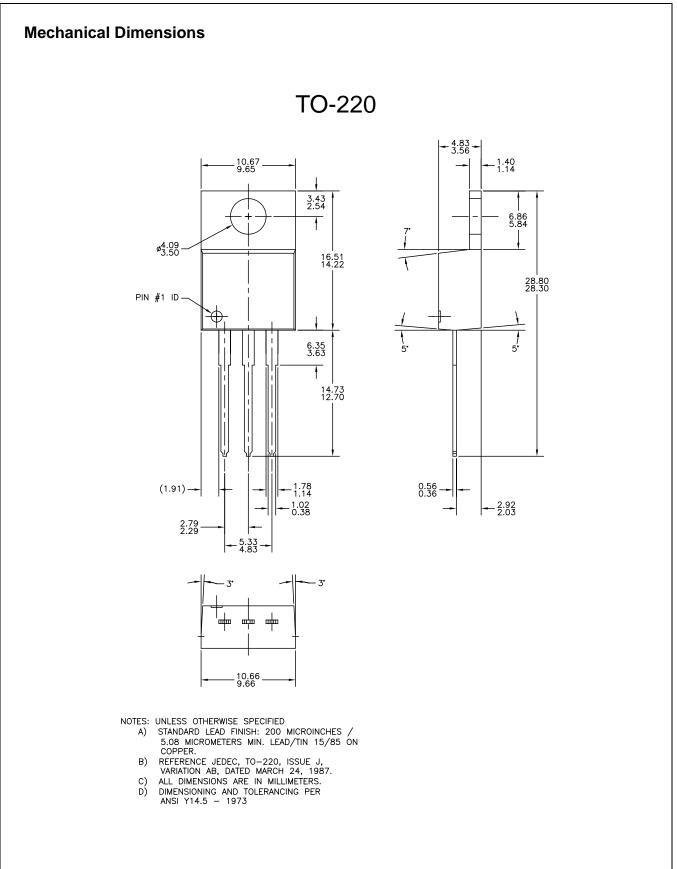
Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	1.54	°C/W

### Electrical Characteristics T<sub>C</sub> = 25°C unless otherwise noted

Symbol	Parameter		Parameter Value	
V <sub>FM*</sub>	Maximum Instantaneous Forward Voltage $I_F = 10A$ $I_F = 10A$ $I_F = 20A$ $I_F = 20A$ $I_F = 20A$	$T_{C} = 25^{\circ}C$ $T_{C} = 125^{\circ}C$ $T_{C} = 25^{\circ}C$ $T_{C} = 25^{\circ}C$ $T_{C} = 125^{\circ}C$	- 0.70 0.95 0.85	V V V V
I <sub>RM*</sub>	Maximum Instantaneous Reverse Current @ rated V <sub>R</sub>	$T_{C} = 25^{\circ}C$ $T_{C} = 125^{\circ}C$	0.1 20	mA mA

Pulse Test: Width = 300µs, Duty Cycle = 2%





**Dimensions in Millimeters** 

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FACT Quiet Series™		OPTOPLANAR™	SPM™	
Across the board. Arou The Power Franchise <sup>®</sup> Programmable Active [	Power247 <sup>™</sup> SuperSO1 <sup>™</sup> -3			

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