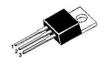
# **REASUNOS**

## MBR20200CT MBRF20200CT

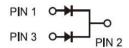
## SCHOTTKY BARRIER RECTIFIER





TO-220AB/MBR

ITO-220 /MBRF



## \_ (

(Pb) Lead Free Package and Finish

- **FEATURES**
- Low forward voltage
- High current capability
- · High forward surge capability
- Low power losses, High efficiency
- · Guarding for over voltage protection

#### **APPLICATIONS**

Low VF Schottky barrier rectifier are designed for high frequency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

Primary Characteristic			
Io	2*10A		
$V_{RRM}$	200V		
I <sub>FSM</sub>	250A		
$V_{F}$	0.76V		
T <sub>J</sub> max	150℃		

### **MECHANICAL DATA**

Case: Molded plasticPolarity: As markedMounting Position: Any

Molded Plastic: UL Flammability Classification Rating 94V-0
Lead free in compliance with EU RoHS 2011/65/EU directive

• Solder bath temperature 275°C maximum,10s per JESD 22-B106

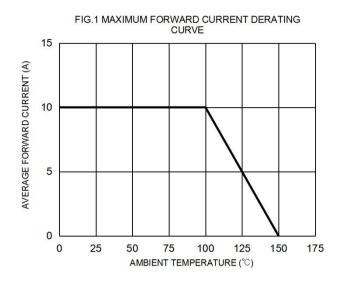
Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified						
Characteristics	Symbol	Value	Unit			
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V			
Working Peak Reverse Voltage	$V_{RWM}$	200	V			
Maximum DC Blocking Voltage	$V_{DC}$	200	V			
Maximum Average Forward Rectified Current Total	- I <sub>o</sub>	10	А			
		20				
Peak Forward Surge Current,8.3 ms Single Half Sine-wave	I <sub>FSM</sub>	250	Α			
perating Temperature Range T <sub>J</sub>		150	°C			
Storage Temperature Range	$T_{STG}$	-40 to +150	°C			
Typical Thermal Resistance (Note1)						
TO-220AB	R <sub>0 JC</sub>	2	°C/W			
ITO-220		4				

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified							
Characteristics		Symbol	Value		Unit		
Forward Voltage Drop(Note2)			Тур.	Max.			
at I <sub>F</sub> =3A	TA=25°C	]	0.76	-			
	TA=125°C		0.63	-			
at I <sub>F</sub> =5A	TA=25°C	$V_{F}$	0.80	-	V		
	TA=125°C		0.68	-			
at I <sub>F</sub> =10A	TA=25°C	]	0.87	0.95			
	TA=125°C	]	0.76	-			
Maximum Reverse Current at V <sub>R</sub> =200V	TA=25°C		1	10	μA		
	TA=125°C	I <sub>R</sub>	1	-	mA		

Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

## RATINGS AND CHARACTERISTIC CURVES



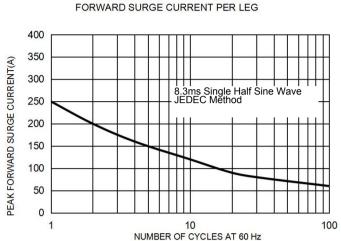
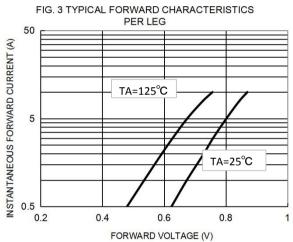
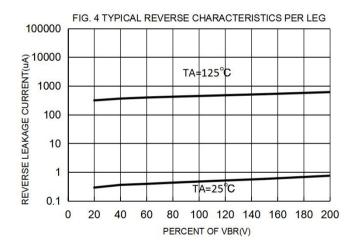


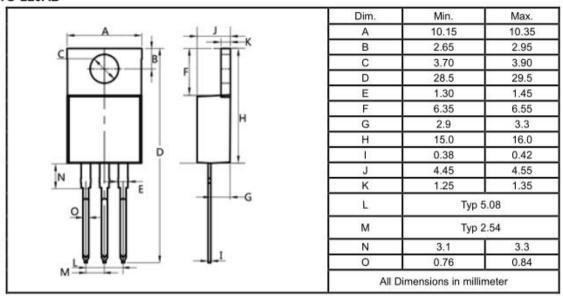
FIG. 2 MAXIMUM NON-REPETITIVE



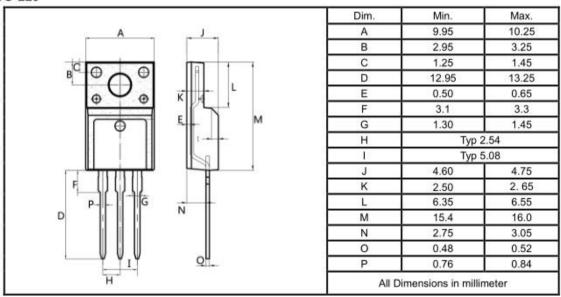


# Package Outline Dimensions millimeters

#### TO-220AB



#### ITO-220



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