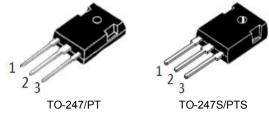
# **REASUNOS**

## MBR40200PT/PTS

## SCHOTTKY BARRIER RECTIFIER





<b>Primary Characterist</b>	ic
Ι <sub>ο</sub>	2*20A
V <sub>RRM</sub>	200V
I <sub>FSM</sub>	450A
V <sub>F</sub>	0.73V
TJmax	<b>150</b> ℃
Assembly code	ХХ

## **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 freqency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

### **MECHANICAL DATA**

- Case: Molded plastic
- · Polarity: As marked
- Mounting 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

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	200	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	200	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	V
Maximum Average Forward Rectified Current Total		20	•
Total	I <sub>O</sub>	40	A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave	I <sub>FSM</sub>	450	А
Operating Temperature Range	TJ	150	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +150	°C
Typical Thermal Resistance (Note1)	R <sub>θIC</sub>	2	°C/W

al resistance from junction to case per leg mounted on ne

Electrical Characteristics (Pe	er Leg) unles	s otherwi	se specified		
Characteristics		Symbol	Val	ue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at L = 5 A	TA=25°C	]	0.73	-	
at I <sub>F</sub> =5A	TA=125°C	] [	0.58	-	
at L = 10.0	TA=25°C	V <sub>F</sub>	0.79	-	V
at I <sub>F</sub> =10A	TA=125°C		0.65	-	
at 1 = 20.0	TA=25°C	]	0.86	0.89	
at I <sub>F</sub> =20A	TA=125°C		0.73	-	
Maximum Reverse Current at $V_{R}$ =200V	TA=25°C		2	10	μA
Waximum Neverse Cullent at V <sub>R</sub> =200V	TA=125°C	I <sub>R</sub>	2	-	mA

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



## MBR40200PT/PTS

# REASUNOS

## RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

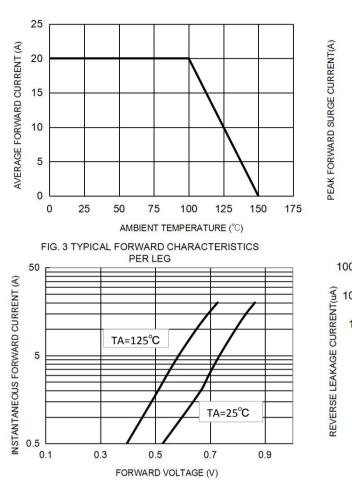
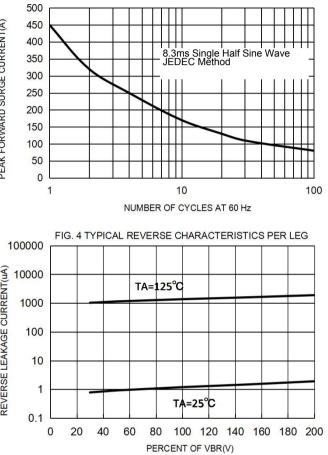


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

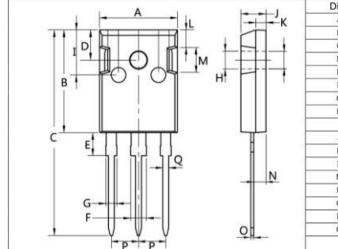


# REASUNOS

## MBR40200PT/PTS

#### Package Outline Dimensions millimeters

#### TO-247



Dim.	Min.	Max.	
A	15.0	16. 0	
В	20.0	21.0	
С	41.0	42.0	
D	5.0	6.0	
E	4.0	5.0	
F	2.5	3.5	
G	1.75	2.5	
н	3.0	3.5	
1	8.0	10.0	
J	4.9	5.1 2.1 4.0	
к	1.9		
L	3.5		
м	4.75	5.25	
N	2.0	3.0	
0	0.55	0.75	
Р	Typ 5.08		
Q	1.2	1.3	

TO-247S

