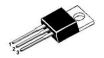
## **REASUNOS**

### LOW VF SCHOTTKY RECTIFIER

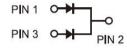




TO-220AB/MBR

ITO -220/MBRF





TO-263/MBRS

<b>Primary Characteristi</b>	С
l <sub>o</sub>	2*10A
$V_{RRM}$	300V
I <sub>FSM</sub>	120A
$V_{F}$	0.78V
T₃max	175℃

### FEATURES

(Pb) Lead Free Package and Finish

- Low forward voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- · Guarding for over voltage protection
- Excellent high temperature stability

#### **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

### **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-

Maximum Ratings (Per Leg	) at Ta=25°C	unless othe	rwise specified	
Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltag	Э	$V_{RRM}$	300	V
Working Peak Reverse Voltage		$V_{RWM}$	300	V
Maximum DC Blocking Voltage		$V_{DC}$	300	V
Maximum Average Forward Rectified	Per Leg		10	Α
Current	Total	I <sub>O</sub>	20	A
Peak Forward Surge Current, 8.3 ms Single	e Half Sine-wave	I <sub>FSM</sub>	120	Α
Operating Temperature Range		T <sub>J</sub>	-50 to +175	°C
Storage Temperature Range		T <sub>STG</sub>	-50 to +175	°C
Typical Thermal Resistance (Note1)				
TO-220AB,TO-263		R <sub>0 JC</sub>	2	°C/W
ITO-220			4	

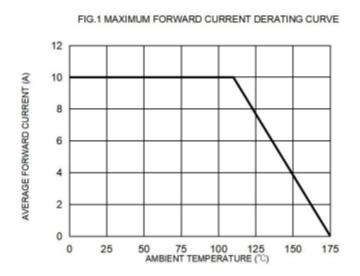
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

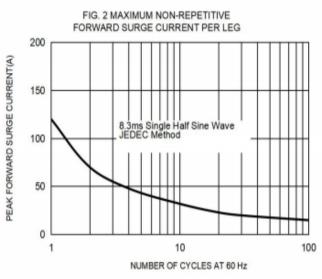
Electrical Characteristics (Pe	er Leg) unles	s otherwise	specified		
Characteristics		Symbol	Va	lue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
ot I = 5 A	TA=25°C		0.78	0.84	
at I <sub>F</sub> =5A	TA=125°C		0.65	-	
at I =400	TA=25°C	V <sub>F</sub>	0.82	0.86	V
at I <sub>F</sub> =10A	TA=125°C		0.70	-	
ct   -45A	TA=25°C		0.92	1.00	
at I <sub>F</sub> =15A	TA=125°C		0.78	-	
Maximum Dayaraa Current at 1/ =2001/	TA=25°C		0.2	1	μΑ
Maximum Reverse Current at V <sub>R</sub> =300V	TA=125°C	I <sub>R</sub>	10	-	mA

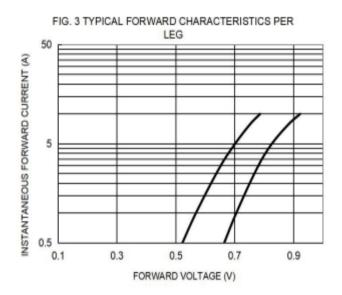
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

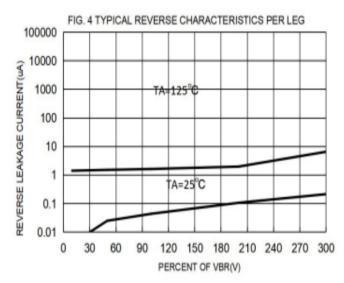
# **REASUNOS**

## RATINGS AND CHARACTERISTIC CURVES





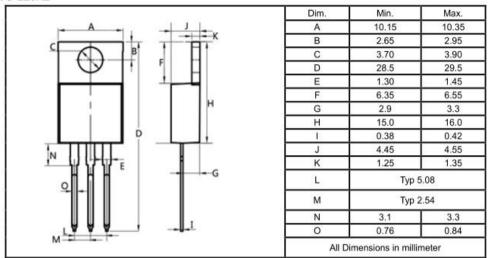




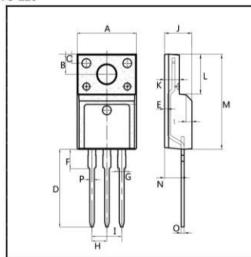
## **REASUNOS**

## Package Outline Dimensions millimeters

#### TO-220AB

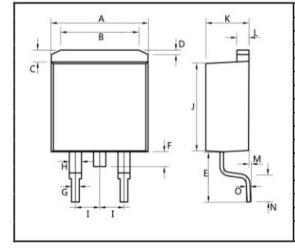


ITO-220



Dim.	Min.	Max.
Α	9.95	10.25
В	2.95	3.25
С	1.25	1.45
D	12.95	13.25
E	0.50	0.65
F	3.1	3.3
G	1.30	1.45
Н	Typ 2.54	
10	Typ 5.08	
J	4.60	4.75
K	2.50	2.65
٦	6.35	6.55
M	15.4	16.0
N	2.75	3.05
0	0.48	0.52
Р	0.76	0.84

TO-263



Dim.	Min.	Max.
Α	10.1	10. 2
В	7.4	7.6
С	1.3	1.5
D	0.55	0.75
E	5.0	6.0
F	1.4	1.6
G	0.78	0.86
Н	1.2	1.3
E3	Typ 2.54	
J	8.4	8.6
K	4.45	4.55
L	1.25	1.35
М	0.02	0.1
N	2.4	2.8
0	0.36	0.40