

# **Extreme Low VF Trench MOS Schottky**

REVERSE VOLTAGE - 150 Volts FORWARD CURRENT - 20.0 Amperes

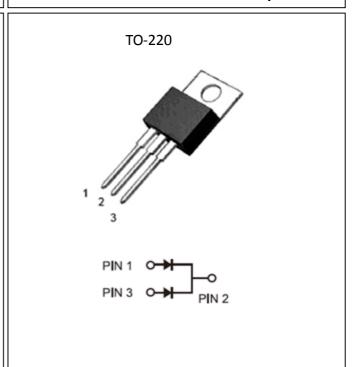
### **FEATURES**

- Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability
- Trench MOS Schottky technology

## **MECHANICAL DATA**

Case: TO-220Polarity: As marked

Weight: Approximated 1.86 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Characteristics	Symbol	Value		Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	150		V
RMS Reverse Voltage	$V_{RMS}$	105		V
Forward Voltage Drop		Тур.	Max.	
I <sub>F</sub> =5A (T <sub>J</sub> =25°ℂ)		0.77	-	
I <sub>F</sub> =5A (T <sub>J</sub> =125°ℂ)	$V_{F}$	0.62	-	V
I <sub>F</sub> =10 A (T <sub>J</sub> =25°ℂ)		0.89	0.93	
I <sub>F</sub> =10 A (T <sub>J</sub> =125°C)		0.68	0.75	
Maximum Reverse Current at Rated V <sub>RRM</sub>		Тур.	Max.	
T <sub>J</sub> =25°C	$I_{R}$	3	30	μA
T <sub>J</sub> =125°C		4	10	mA
Maximum Average Forward Rectified Current				
Total device	$I_{O}$	20 10		Α
Per diode				
Peak Forward Surge Current,				
8.3 ms Single Half Sine-wave	$I_{FSM}$	150		Α
Superimposed on Rated Load (JEDEC method)				
Peak Repetitive Reverse Current at tp=2 μs, 1 kHz,	$I_{RRM}$	1.0		Α
Operating and StorageTemperature Range	T <sub>J,</sub> T <sub>STG</sub>	-65 to +150		°C



# **Rating and Characteristic Curves**

