



# **Excellent Schottky Rectifier**

REVERSE VOLTAGE - 45 Volts FORWARD CURRENT - 30.0 Amperes

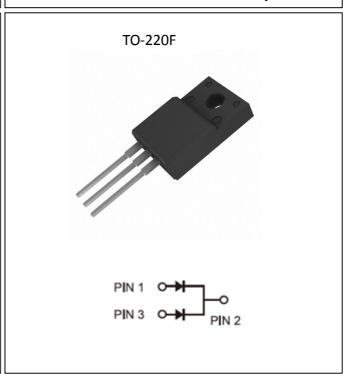
### **FEATURES**

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

## **MECHANICAL DATA**

Case: TO-220FPolarity: As marked

Weight: Approximated 1.6 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. 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	$V_{RRM}$	45		V
RMS Reverse Voltage	$V_{RMS}$	31.5		V
Forward Voltage Drop $I_F=3 \text{ A } (T_J=25^{\circ}\text{C})$ $I_F=15\text{A } (T_J=25^{\circ}\text{C})$	V <sub>F</sub>	Typ. 0.34 -	Max. - 0.51	V
Maximum Reverse Current at Rated $V_{RRM}$ $T_J$ =25°C $T_J$ =125°C	I <sub>R</sub>	Max. 500 35		μA mA
Maximum Average Forward Rectified Current Total device Per diode	I <sub>O</sub>	30 15		А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	150		А
Peak Repetitive Reverse Current at tp=2 µs, 1 kHz,	I <sub>RRM</sub>	1.0		Α
Operating and StorageTemperature Range	$T_{J,} T_{STG}$	-55 to +150		°C



## **Rating and Characteristic Curves**

FIG. 1-Typical Forward Current Derating Curve

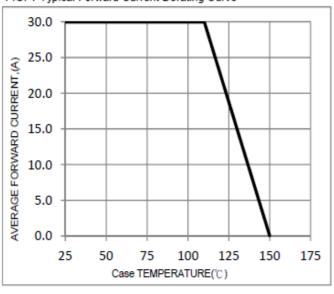


FIG. 2-Typical Forward Characteristics

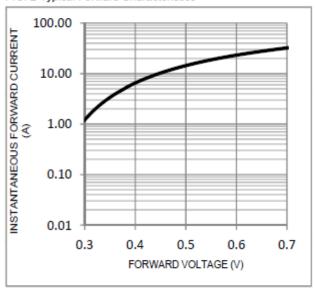


FIG. 3-Maximum Non-Repetitive Forward Surge Current

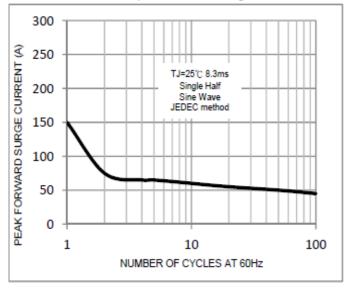


FIG. 4-Typical Reverse Characteristics

