

Excellent Schottky Rectifier

REVERSE VOLTAGE - 100 Volts
FORWARD CURRENT - 10.0 Amperes

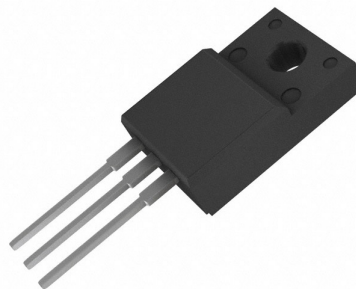
FEATURES

- 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-220F
- Polarity: As marked
- Weight: Approximated 1.6 grams

TO-220F



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}	100		V
RMS Reverse Voltage	V_{RMS}	70		V
Forward Voltage Drop $I_F=2A$ ($T_J=25^\circ C$) $I_F=5 A$ ($T_J=25^\circ C$)	V_F	Typ. 0.49 -	Max. - 0.70	V
Maximum Reverse Current at Rated V_{RRM} $T_J=25^\circ C$ $T_J=125^\circ C$	I_R	Max. 500 10		μA mA
Maximum Average Forward Rectified Current Total device Per diode	I_O	10 5		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	100		A
Peak Repetitive Reverse Current at $t_p=2 \mu s$, 1 kHz,	I_{RRM}	1.0		A
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150		°C

Rating and Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

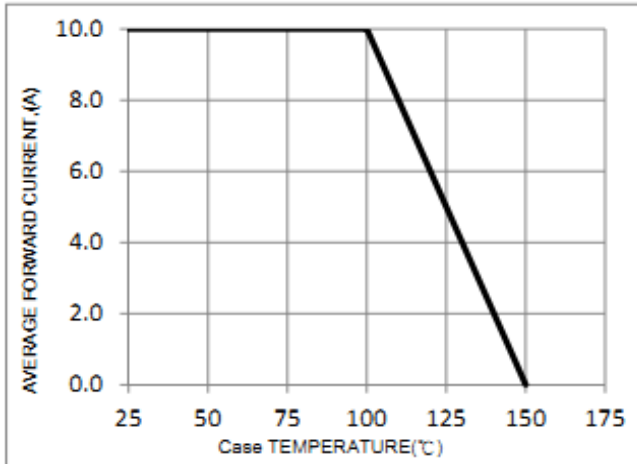


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

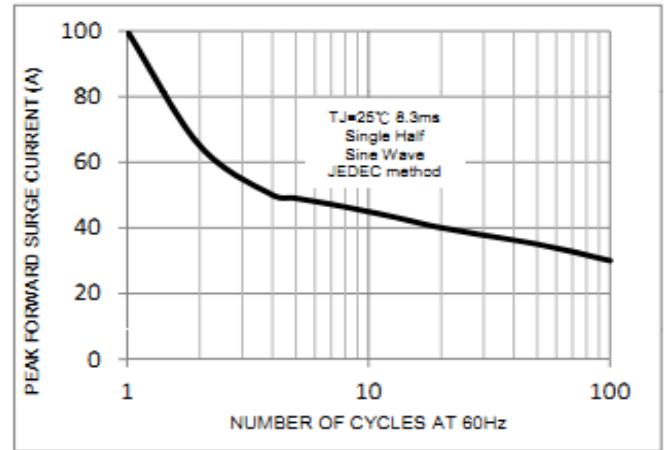


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

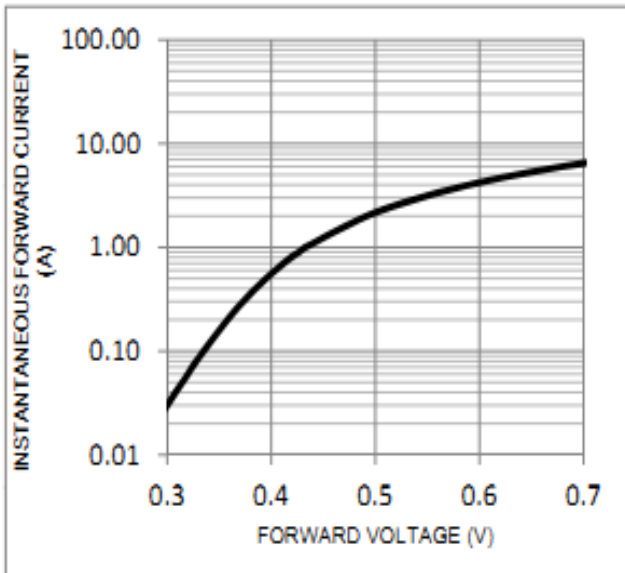


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

