

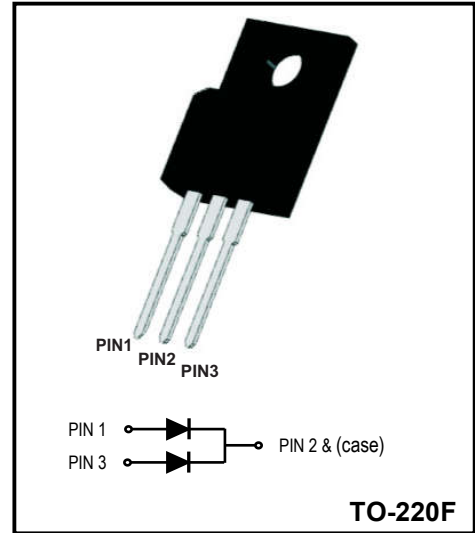
**Super Fast Rectifiers**  
**Reverse Voltage - 200V**  
**Forward Current - 30A**

**FEATURES**

- ◆ Glass passivated chip junctions
- ◆ Super fast recovery time for switching mode application
- ◆ High Forward Surge Capability
- ◆ Low Reverse Current
- ◆ Lead free in compliance with EU RoHS 2011/65/EU directive

**MECHANICAL DATA**

- ◆ Circuit figure: Common Cathode
- ◆ Leads: Solderable per mil-std-202, Method 208
- ◆ Polarity: as marked
- ◆ Mounting torque: 5 in-lbs maximum
- ◆ Terminals: Puretin plated
- ◆ Weight: TO-220F 1.70 grams



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C)**

RATINGS	SYMBOL	Value	Units
Maximum repetitive reverse voltage	<b>V<sub>RRM</sub></b>	200	<b>V</b>
Maximum RMS voltage	<b>V<sub>RMS</sub></b>	140	<b>V</b>
Maximum DC blocking voltage	<b>V<sub>DC</sub></b>	200	<b>V</b>
Maximum average forward current	<b>I<sub>AV</sub></b>	30	<b>A</b>
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	<b>I<sub>FSM</sub></b>	400	<b>A</b>
Typical thermal resistance per diode (Note 1)	<b>R<sub>θ-JC</sub></b>	4.0	<b>°C/W</b>
Operation Junction Temperature and Storage Temperature	<b>T<sub>J</sub>, T<sub>STG</sub></b>	-55 ~ +150	<b>°C</b>
<b>CHARACTERISTICS</b>			
Typical forward voltage per leg at 15A	<b>V<sub>F</sub></b>	1.00	<b>V</b>
Maximum average reverse current at rated DC blocking voltage	<b>I<sub>R</sub></b>	5 250	<b>μA</b>
Typical reverse recovery time (Note 2)	<b>T<sub>RR</sub></b>	35	<b>nS</b>

Notes: 1. Thermal resistance from junction to case.  
2. Test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A.

**Ratings And Characteristic Curves**

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

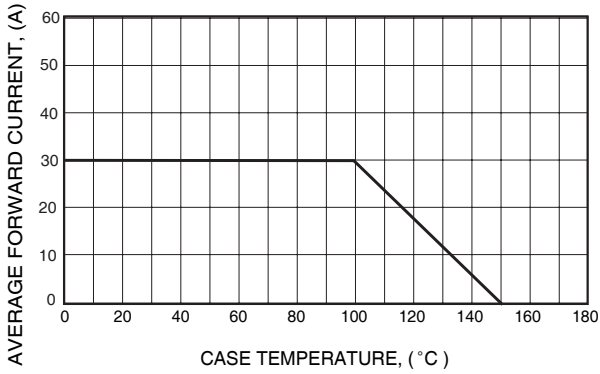


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

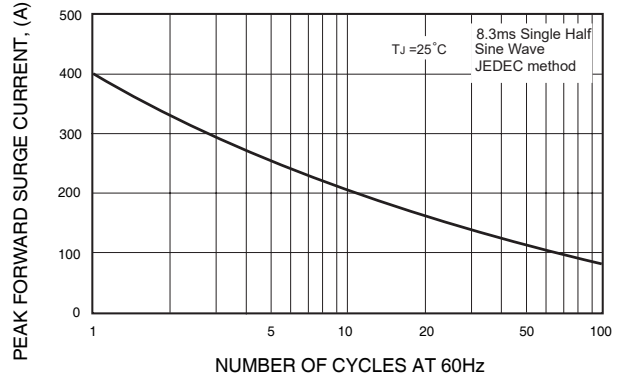


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

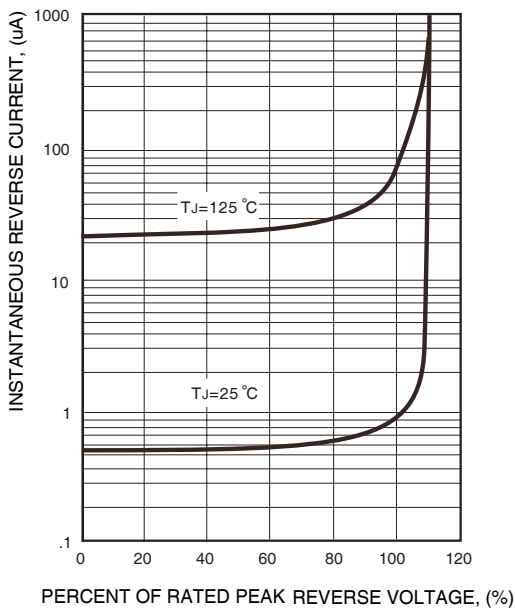
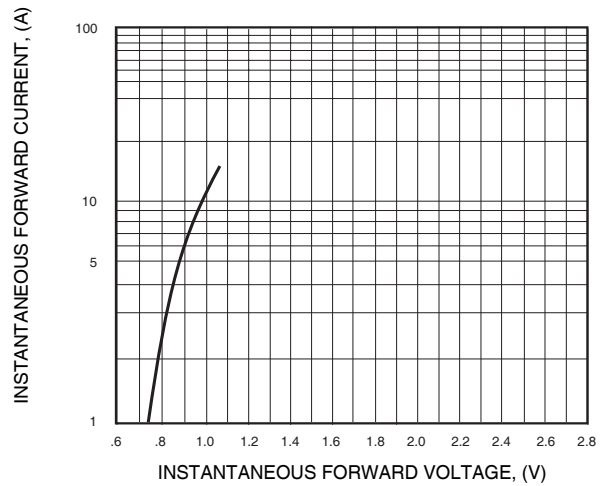


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Package outline Dimensions in millimeters

TO-220F

