UF3006

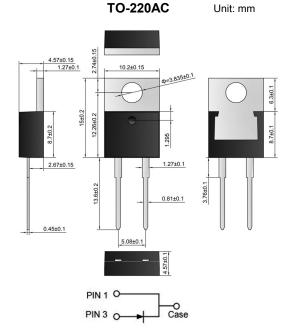
SUPERFAST RECTIFIER DATA SHEET

FEATURES

- Fred Chip Planar Construction
- Hyper Fast Recovery Time
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Plastic Case Material has UL Flammability Classification Rating 94V-O

MECHANICAL DATA

- Case: TO-220AC TYPE molded Plastic
- Terminals:Solderable per MIL-STD-202,Method 208
- Polarity: as marked
- Weight: 1.9 grams(approx)
- Lead Free:For RoHS/Lead Free Version,
 Green molding compound as per IEC61249 Std



Maximum Ratings and Electrical Charateristics @T_A=25℃ unless otherwise specified

Parameter Symbol	Symbol	UF3006		Unit
Device marking code		UF3006		
Maximum repetitive peak reverse voltage	V_{RRM}	600		V
Maximum RMS voltage	V_{RMS}	420		V
Maximum DC blocking voltage	V_{DC}	600		V
Maximum average forward rectified current at Tc=100°C	I _{F(AV)}	30.0		А
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	l _{fsm}	300		А
Maximum instantaneous forward voltage at 30A	V_{F}	Тур. 1.3	Max.	v
Maximum DC revers current Ta=25°C Maximum DC revers current Ta=100°C	I _R	5 250		uA
Thermal Resistance Junction To Ambient Thermal Resistance Junction To Case	RthJA RthJC	70 4.0		°C/W
Maximum Reverse Recovery Time (Note1)	Trr	Тур.	Max.	nS
		35	50	
Operating temperature range	T_J	- 55 to + 150		°C
Storage temperature range	T _{STG}	– 55 to + 150		°C

Note: 1.Measured With IF=0.5A, IR=1.0A,IRR=0.25A

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RATINGS AND CHARACTERISTIC CURVES

Fig. 1- Forward current derating curve

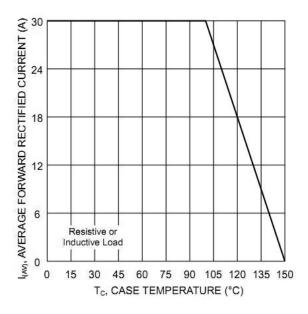


Fig.3 - Typical reverse characteristics

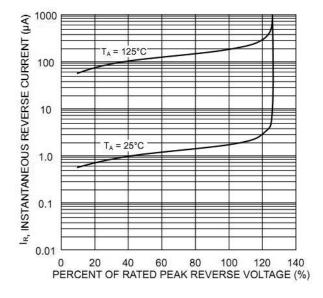


Fig. 2 - Forward surge current derating curve

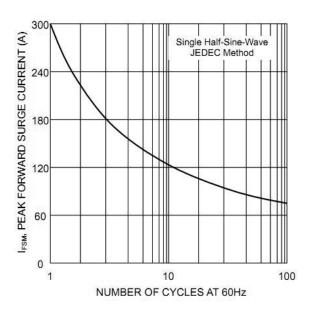
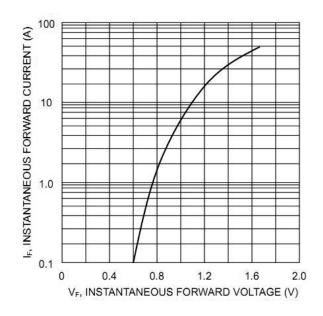


Fig. 4 - Typical forward characteristics



UF3006

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