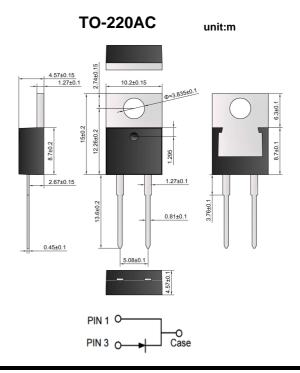
UF1206 ULTRA FAST RECTIFIER DATA SHEET

FEATURES

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

APPLICATIONS

- 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 $@T_A=25^{\circ}C$ unless otherwise specified

Parameter Symbol	Symbol	UF1206		Unit
Device marking code		UF1206		
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	I _{F(AV)}	8.0		А
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	150		А
Maximum instantaneous forward voltage at 12.0A		Тур.	Max.	V
	V _F	1.4	1.5	
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)		Тур.	Max.	nS
	Trr	35	50	
Operating temperature range	TJ	– 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



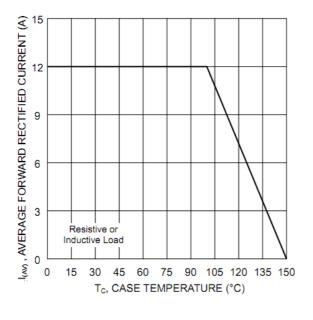


Fig 1.Forward current derating curve



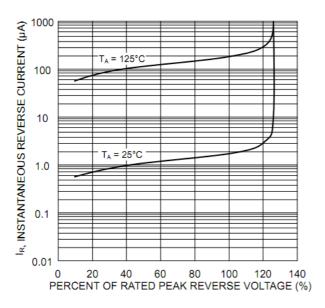


Fig 2.Forward surge current derating curve

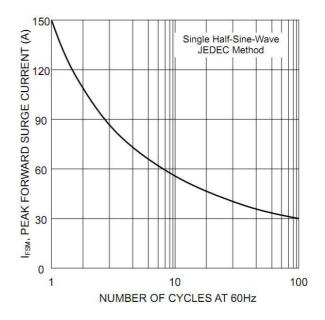


Fig 4. Typical forward characteristics

