

ULTRAFAST RECOVERY RECTIFIERS Unit : inch(mm) ITO-220AC VOLTAGE 50 to 800 Volt CURRENT **10 Ampere** FEATURES 0.112(2.85) 0.100(2.55) 0.406(10.3) 0.189(4.8) 0.272(6.9) 0.248(6.3) · Plastic package has Underwriters Laboratory Ø0.134(3.4) Ø0.118(3.0) 0.130(3.3) Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound. · Low power loss, high efficiency. 15.4) 14.8) 0.063(1.6)MAX. · Low forward voltage, high current capability 0.128(3.25) MIN 0.583(1 · High surge capacity. • Ultra fast recovery time, high voltage. • Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU 0.055(1.4) 0.114(2.9) 0.543(13.8) 0.512(13.0) 0 177(4 5) 0 137(3 5) directive) 0.055(1.4) 0.039(1.0) 0.028(0.7) • Green molding compound as per IEC61249 Std. . (Halogen Free) 0.019(0.5) 3 **MECHANCAL DATA** -11- 0.027(0.67) 0.022(0.57) 0.100(2.55) 0.100(2.55) Case: ITO-220AC full molded plastic package • Terminals: Lead solderable per MIL-STD-750, Method 2026 **-|4**−3 (1)-· Polarity: As marked. • Weight: 0.055 ounces, 1.56 grams. · Marking: Part number

MAXIMUM RATINGSAND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	UF1000F	UF1001F	UF1002F	UF1003F	UF1004F	UF1006F	UF1008F	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	V
Maximum RMS Voltage	V _{rms}	35	70	140	210	280	420	560	v
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	V
Maximum Average Forward Current at T _c = 100°C	I _{F(AV)}	10					А		
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I _{fsm}	150					A		
Maximum Forward Voltage at 10A	V _F	1 1.3			1.7		v		
Maximum DC Reverse Current at Rated DC T _J =25°C Blocking Voltage T _J =125°C	I _R	1 500					μA		
Typical Junction Capacitance (Note 1)	C	80			50		pF		
Maximum Reverse Recovery Time (Note 2)	t _{rr}	50			100		ns		
Typical Thermal Resistance (Note 3)	R _{ejc}	2					°C / W		
Operating Junction and Storage Temperature Range	T_,T _{stg}	-55 to +150					°C		

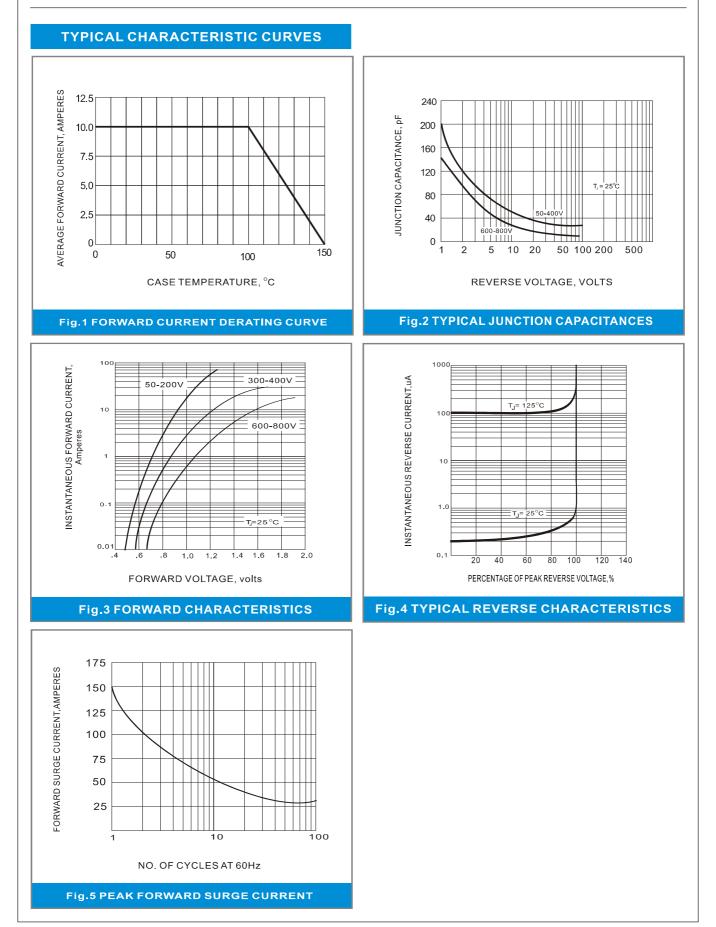
NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4 VDC.
- 2. Reverse recovery test conditions: I_F=0.5A, I_R=-1A, Irr=-0.25A.

3. Thermal resistance from junction to case.

4. Both bonding and chip structure are available.







Product and Packing Information

Part No.	Package Type	Packing Type	Marking
UF1000F	ITO-220AC	50pcs / Tube	UF1000F
UF1001F	ITO-220AC	50pcs / Tube	UF1001F
UF1002F	ITO-220AC	50pcs / Tube	UF1002F
UF1003F	ITO-220AC	50pcs / Tube	UF1003F
UF1004F	ITO-220AC	50pcs / Tube	UF1004F
UF1006F	ITO-220AC	50pcs / Tube	UF1006F
UF1008F	ITO-220AC	50pcs / Tube	UF1008F



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