

UF1600FCT SERIES

ULTRAFAST RECOVERY RECTIFIERS Unit : inch(mm) VOLTAGE 50 to 600 Volt ITO-220AB CURRENT 16 Ampere **FEATURES** Plastic package has Underwriters Laboratory 0 112(2 85) 0 100(2 55) 0.406(10.3) 0.189(4.8) Flammability Classification 94V-O utilizing 272(6.9) 248(6.3) 0.381(9.7) 0.165(4.2) Flame Retardant Epoxy Molding Compound. 00 134(3 4) 0.130(3.3) Ø0.118(3.0) · Low power loss, high efficiency. · Low forward voltage, high current capability 0.606(15.4) 0.583(14.8) · High surge capacity. 0 128(3 25) MIN 0.606(· Ultra fast recovery times, high voltage. · Lead free in compliance with EU RoHS 2011/65/EU directive · Green molding compound as per IEC61249 Std. . (Halogen Free) 0.114(2.9) 0.055(1.4) 0.543(13.8) 0.512(13.0) 0.177(4.5) 0.137(3.5) 0.039(1.0) 0.055(1.4) **MECHANCAL DATA** 0.039(1.0) 0.028(0.7) 0.02010 · Case: ITO-220AB plastic package 3 • Terminals: Lead solderable per MIL-STD-750, Method 2026 0.027(0.67) 0.100(2.55) 0.100(2.55) 0.022(0.57) · Polarity: As marked. Ò Standard packaging: Any -(2) • Weight: 0.056 ounces, 1.6 grams. AC 3-MAXIMUM RATINGS AND 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	UF1600FCT	UF1601FCT	UF1602FCT	UF1603FCT	UF1604FCT	UF1606FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	v
Maximum RMS Voltage	V _{rms}	35	70	140	210	280	420	v
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	v
Maximum Average Forward Current at T _c = 100°C	I _{F(AV)}	16					A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	125						A
Maximum Forward Voltage at 8A	V _F	1 1.3			1.7	v		
Maximum DC Reverse Current at Rated DC Blocking T_=25°C Voltage T_=125°C	I _R	1 500						μA
Typical Junction Capacitance (Note 1)	C	170 1					130	pF
Maximum Reverse Recovery Time (Note 2)	t _{rr}	50					100	ns
Typical Thermal Resistance (Note 3)	$R_{_{ ext{ hetaJC}}}$	2				°C / W		
Operating Junction and Storage Temperature Range	T _J , T _{stg}	-65 to +150				°C		

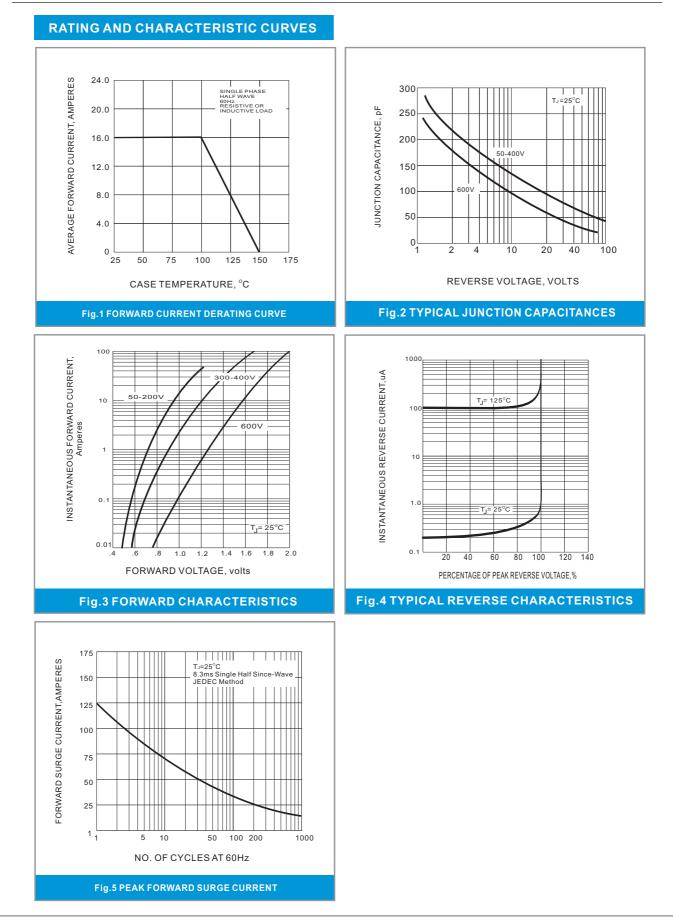
NOTES :

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

3. Thermal resistance from junction to case.



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For example :

RB500V-40_R2_00001

Part No.

- Serial number

Version code means HF

• Packing size code means 13"

• Packing type means T/R

Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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