UNISONIC TECHNOLOGIES CO., LTD

UHR1040C

Preliminary

FAST RECOVERY EPITAXIAL DIODE

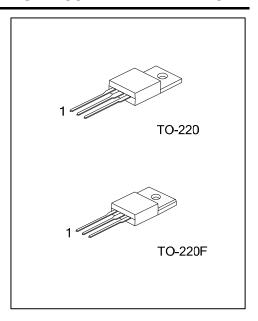
CATHODE HYPERFASTER SOFT RECOVERY RECTIFIER

■ DESCRIPTION

The UTC **UHR1040C** is a hyperfaster soft recovery rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, high current capability and high efficiency, etc.

■ FEATURES

- * Low forward voltage drop
- * High current capability
- * High surge capacity
- * Low power loss
- * High efficiency
- * hyperfaster recovery times, high voltage



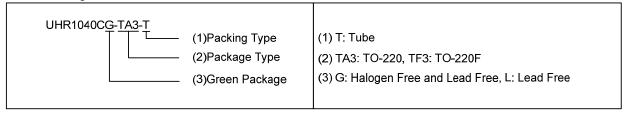
■ SYMBOL



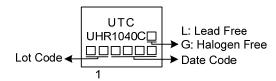
■ ORDERING INFORMATION

Ordering Number		Daakana	Pin Assignment			D. alda a	
Lead Free	Halogen Free	e Package		2	3	Packing	
UHR1040CL-TA3-T	UHR1040CG-TA3-T	TO-220	Α	K	Α	Tube	
UHR1040CL-TF3-T	UHR1040CG-TF3-T	TO-220F	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



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ABSOLUTE MAXIMUM RATINGS

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

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PARAMETER		SYMBOL	RATINGS	UNIT		
DC Blocking Voltage		V_R	400	>		
Recurrent Peak Reverse Voltage		V_{RRM}	400	>		
Average Average Forward Current at	Per Leg		5	Α		
T _C =100°C	Total	I _{F(AV)}	10	Α		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave		I _{FSM}	40			
Superimposed on Rated Load (JEDEC Method)			40	A		
Operating Junction Temperature		TJ	-55 ~ +150	°C		
Storage Temperature		T _{STG}	-55 ~ +150	°C		

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA (PER LEG)

PARAMETER		SYMBOL	RATINGS	UNIT	
T	TO-220	0	5	°C/W	
Typical Thermal Resistance	TO-220F	θυς	7	°C/W	

■ ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	V _F	I _F =5A			1.5	V
DC Reverse Current at Rated DC Blocking		T _J =25°C			10	μΑ
Voltage	IR	T _J =125°C			200	μΑ
Reverse Recovery Time (Note 2)	t _{rr}			30		ns

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Reverse Recovery Test Conditions: I_F=5.0A, I_R=1A, Irr=0.25A.

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