UNISONIC TECHNOLOGIES CO., LTD

UUR3060C

SWITCHMODE ULTRAFAST POWER RECTIFIER

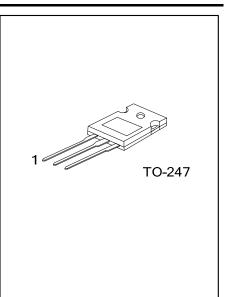
DESCRIPTION

The UTC **UUR3060C** is a switchmode ultrafast power rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high surge capacity, etc.

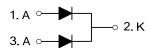
The UTC ${\tt UUR3060C}$ is suitable for instrumentation and power management, etc

■ FEATURES

- * Ultra-fast switching
- * Low forward voltage drop
- * High efficiency and low power loss
- * High surge capacity

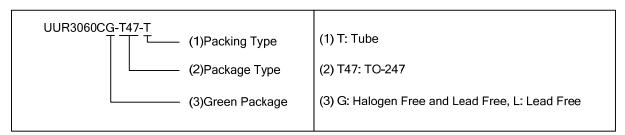


■ SYMBOL

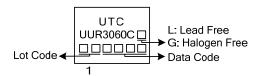


■ ORDERING INFORMATION

Ordering Number		Dookowa	Pin Assignment			Dealine	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UUR3060CL-T47-T	UUR3060CG-T47-T	TO-247	Α	K	Α	Tube	



■ MARKING



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ABSOLUTE MAXIMUM RATINGS

PARAMETER		SYMBOL	RATINGS	UNIT	
Repetitive Peak Reverse Voltage		V_{RRM}	600	V	
Working Peak Reverse Voltage		V_{RWM}	600	V	
DC Blocking Voltage		V_R	600	V	
Average Forward Current	T _C =140°C	I _{F(AV)}	15	Α	
	Total Device		30	Α	
Nonrepetitive Peak Surge Current					
(Surge applied at rated load conditions, halfwave, single		I _{FSM}	180	Α	
phase, 60 Hz)					
Operating Junction Temperature		T_J	-65 ~ +150	°C	
Storage Temperature		T _{STG}	-65 ~ +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 RESISTANCE

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	40	°C/W
Junction to Case	θ _{JC}	1.5	°C/W

■ ELECTRICAL CHARACTERISTICS

Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%.

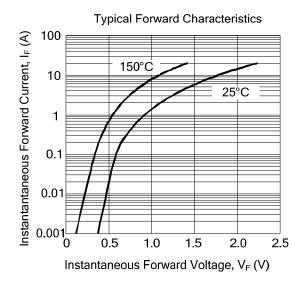
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I _R =1mA	600			V
Forward Voltage Drop	V _F	I _F =15A, T _J =25°C		2.1	2.9	V
Forward Voltage Drop		I _F =15A, T _J =125°C			1.8	V
Lookaga Current (Note 4)	l In	Rated DC voltage, T _J =125°C			800	μΑ
Leakage Current (Note 1)		Rated DC voltage, T _J =25°C			60	μΑ
Maximum Reverse Recovery Time	t _{rr}	I _F =1.0A, di/dt=50A/μs		38	50	ns

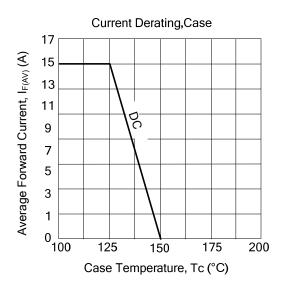
Notes: 1. Short duration pulse test used to minimize self-heating effect.

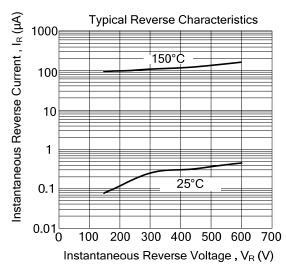
2. Thermal resistance junction to case mounted on heatsink.

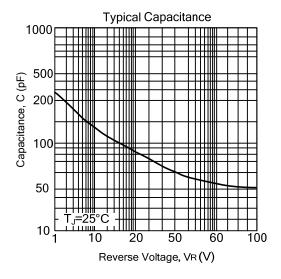
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■ TYPICAL CHARACTERICS

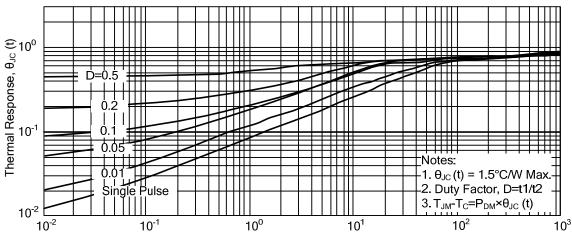












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