UNISONIC TECHNOLOGIES CO., LTD

UMUR2060C DIODE

SWITCHMODE POWER RECTIFIERS

■ DESCRIPTION

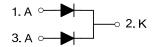
The UTC **UMUR2060C** is a switchmode power rectifier, it uses UTC's advanced technology to provide customers with high voltage capability, low forward drop and low leakage current, etc.

The UTC **UMUR2060C** is suitable for use in switching power supplies, inverters and as free wheeling diodes.

■ FEATURES

- * Ultrafast and nanosecond recovery time
- * High voltage capability
- * Low forward drop
- * Low leakage current

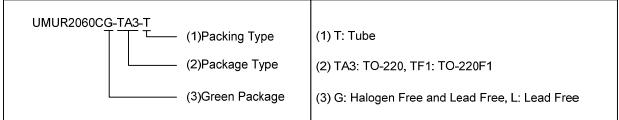
■ SYMBOL



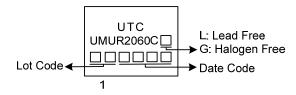
■ ORDERING INFORMATION

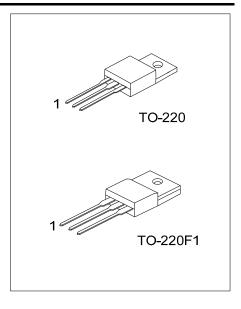
Ordering Number		Pin Assignment			Daakina	
Halogen Free	Раскаде	1	2	3	Packing	
UMUR2060CG-TA3-T	TO-220	Α	K	Α	Tube	
UMUR2060CL-TF1-T UMUR2060CG-TF1-T		Α	K	Α	Tube	
	Halogen Free UMUR2060CG-TA3-T	Halogen Free UMUR2060CG-TA3-T TO-220	Halogen Free Package 1 UMUR2060CG-TA3-T TO-220 A	Halogen Free Package 1 2 UMUR2060CG-TA3-T TO-220 A K	Halogen Free Package 1 2 3 UMUR2060CG-TA3-T TO-220 A K A	

Note: Pin Assignment: A: Anode K: Cathode



MARKING





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UMUR2060C DIODE

■ 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 =100°C	lo	10	Α	
	Total Device		20	Α	
Nonrepetitive Peak Surge Current			А		
(Surge applied at rated load conditions, halfwave, single		I_{FSM}		80	
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 DATA

	PARAMETER		SYMBOL	RATINGS	UNIT
Junction to Case	TO-220	θις	2	°C/W	
	TO-220F1		3.4	°C/W	

■ ELECTRICAL CHARACTERISTICS

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

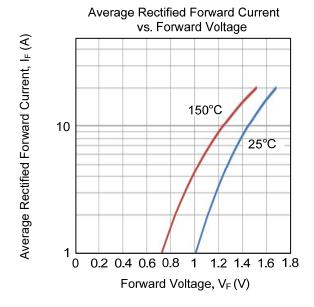
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	I _R =1mA	600			V
Forward Voltage Drop	V _{FM}	I _F =10A, T _C =25°C			1.9	V
		I _F =10A, T _C =150°C			1.7	V
Leakage Current (Note 1)	I _{RM}	Rated DC voltage, T _J =150°C			10	μΑ
		Rated DC voltage, T _J =25°C			250	μΑ
Maximum Reverse Recovery Time	t _{rr}	I _F =1.0A, di/dt=50A/μs		50	65	ns

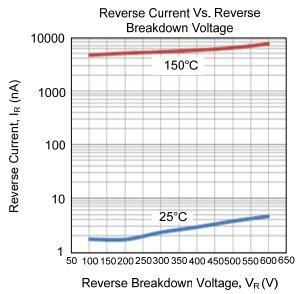
Notes: 1. Short duration pulse test used to minimize self-heating effect.

2. Thermal resistance junction to case mounted on heatsink.

UMUR2060C DIODE

■ TYPICAL CHARACTERISTICS





UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.