

UTC UNISONIC TECHNOLOGIES CO., LTD

UMUR860C **DIODE**

SWITCHMODE POWER RECTIFIERS

DESCRIPTION

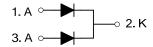
The UTC UMUR860C is a switchmode power rectifier, it uses UTC's advanced technology to provide customers with high voltage capability, low forward drop and low leakage current, etc.

The UTC UMUR860C 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

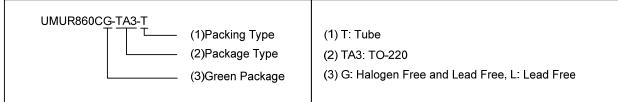
SYMBOL



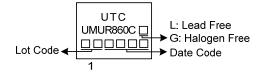
ORDERING INFORMATION

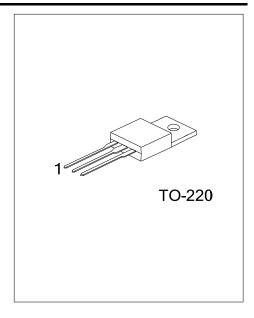
Ordering Number		Daakana	Pin Assignment			Daakina	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UMUR860CL-TA3-T	UMUR860CG-TA3-T	TO-220	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



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 =100°C		4	Α	
	Total Device	I _O	8	Α	
Nonrepetitive Peak Surge Current				А	
(Surge applied at rated load conditions, halfwave,		I _{FSM}	48		
single 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	θ_{JC}	2	°C/W

■ ELECTRICAL CHARACTERISTICS

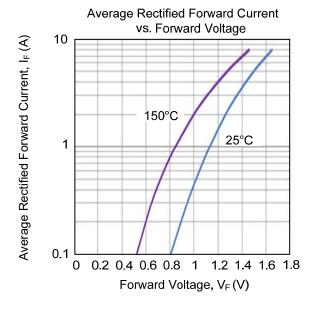
Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%.

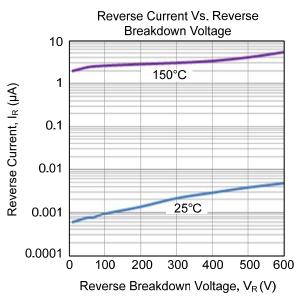
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I _R =1mA	600			V
E 11/1 11 D	VEM	I _F =4.0A, T _C =25°C			1.8	V
Forward Voltage Drop		I _F =4.0A, T _C =150°C			1.6	V
Leakage Current (Note 1)	I IDM	Rated DC voltage, T _J =150°C			250	μΑ
		Rated DC voltage, T _J =25°C			5.0	μΑ
Maximum Reverse Recovery Time	t _{rr}	I _F =1.0A, di/dt=50A/μs			50	ns

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

2. Thermal resistance junction to case mounted on heatsink.

■ TYPICAL CHARACTERISTICS





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