



UMUR860

Advance

DIODE

SWITCHMODE POWER RECTIFIERS

DESCRIPTION

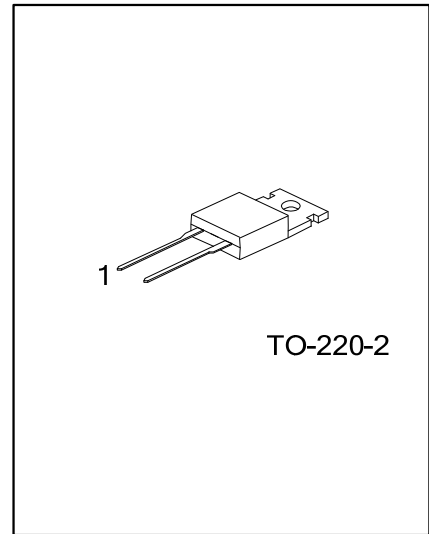
The UTC **UMUR860** is a switchmode power rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage and low leakage current, etc.

The UTC **UMUR860** is suitable for free inverters and switching power supplies, etc.

FEATURES

- * Low forward voltage
- * Low leakage current

SYMBOL



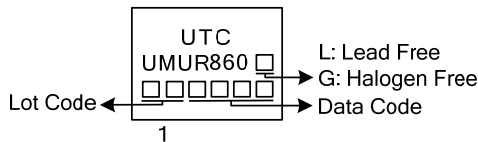
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
UMUR860L-TA2-T	UMUR860G-TA2-T	TO-220-2	K	A	NC	Tube

Note: Pin Assignment: A: Anode K: Cathode

<p>UMUR820L-TA2-T</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) T: Tube (2) TA2: TO-220-2 (3) L: Lead Free, G: Halogen Free and Lead Free
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MARKING



■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_R	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Average Rectified Forward Current Per Total Device, (Rated V_R), $T_C=150^\circ\text{C}$	$I_{F(AV)}$	8.0	A
Peak Repetitive Forward Current (Rated V_R , Square Wave, 20kHz), $T_C=150^\circ\text{C}$	I_{FM}	16	A
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60Hz)	I_{FSM}	100	A
Operating Junction Temperature	T_J	-65~+175	$^\circ\text{C}$
Storage Temperature	T_{STG}	-65~+175	$^\circ\text{C}$

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 CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	73	$^\circ\text{C/W}$
Junction to Case	θ_{JC}	3.0	$^\circ\text{C/W}$

■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note)	V_{FM}	$I_F=8.0\text{A}$, $T_C=25^\circ\text{C}$			1.50	V
		$I_F=8.0\text{A}$, $T_C=150^\circ\text{C}$			1.20	V
Instantaneous Reverse Current (Note)	I_{RM}	Rated DC Voltage, $T_J=25^\circ\text{C}$			5.0	μA
		Rated DC Voltage, $T_J=150^\circ\text{C}$			250	μA
Reverse Recovery Time	t_{RR}	$I_F=1.0\text{A}$, $di/dt=50\text{A}/\mu\text{s}$			60	ns

Note: Pulse Test: Pulse Width=300 μs , Duty Cycle \leq 2.0%.

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