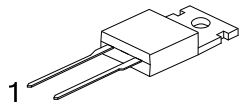
SWITCHMODE POWER RECTIFIERS



TO-220-2

■ DESCRIPTION

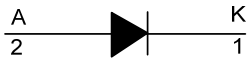
The UTC **UMUR860** is a switchmode power rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage and low leakage current, etc.

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

■ FEATURES

* Low forward voltage
* Low leakage current

■ SYMBOL



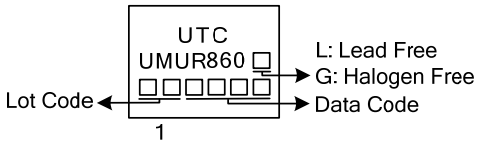
■ ORDERING INFORMATION

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

UMUR820L-TA2-T (1)Packing Type (2)Package Type (3)Green Package	(1) T: Tube (2) TA2: TO-220-2 (3) L: Lead Free, G: Halogen Free and Lead Free

■ 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°C	$I_{F(AV)}$	8.0	A
Peak Repetitive Forward Current (Rated V_R, Square Wave, 20kHz), T_C=150°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	°C
Storage Temperature	T_{STG}	-65~+175	°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	°C/W
Junction to Case	θ_{JC}	3.0	°C/W

■ ELECTRICAL CHARACTERISTICS

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

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