

UNISONIC TECHNOLOGIES CO., LTD

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



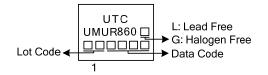
ORDERING INFORMATION

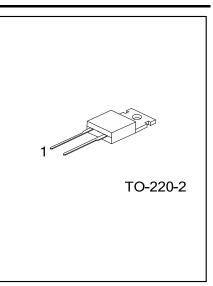
Ordering Number		Daakaga	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package	1	2	3	- Packing	
UMUR860L-TA2-T UMUR860G-TA2-T		TO-220-2	К	Α	NC	Tube	

Note: Pin Assignment: A: Anode K: Cathode

UMUR820L-TA2-T		
Ţ Ţ Ţ (1)Packing Type	(1) T: Tube	
(2)Package Type	(2) TA2: TO-220-2	
(3)Green Package	(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	А
Peak Repetitive Forward Current (Rated V_R , Square Wave, 20kHz), T _C =150°C	I _{FM}	16	А
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60Hz)	I _{FSM}	100	А
Operating Junction Temperature	TJ	-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)	VEN	I _F =8.0A, T _C =25°C			1.50	V
		I _F =8.0A, T _C =150°C			1.20	V
Instanton and Deverse Correct (Nate)		Rated DC Voltage, TJ=25°C			5.0	μA
Instantaneous Reverse Current (Note)	I _{RM}	Rated DC Voltage, TJ=150°C			1.20 5.0	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%.



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