UTC UNISONIC TECHNOLOGIES CO., LTD

UA60UP30

ULTRAFAST RECOVERY POWER RECTIFIER

DESCRIPTION

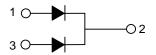
The UTC **UA60UP30** is an ultrafast recovery power rectifier, it uses UTC's advanced technology to provide customers with high peak repetitive reverse voltage and low leakage current, etc.

The UTC **UA60UP30** is suitable for switching mode power supply and power switching circuits, etc.

FEATURES

- * High peak repetitive reverse voltage
- * Ultra-short reverse recovery time
- * Low leakage current

SYMBOL



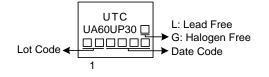
ORDERING INFORMATION

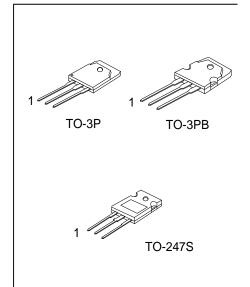
Ordering Number		Package	Pin Assignment			Docking	
Lead Free	Halogen Free	Fackage	1	2	3	Packing	
UA60UP30L-T3B-T UA60UP30G-T3B-T		TO-3PB	А	К	Α	Tube	
UA60UP30L-T3P-T	UA60UP30G-T3P-T	TO-3P	А	К	Α	Tube	
UA60UP30L-T47S-T	UA60UP30G-T47S-T	TO-247S	A	K	Α	Tube	
Note: Dia Assignment: A: Anodo K: Cathodo							

Note: Pin Assignment: A: Anode, K: Cathode

UA60UP30G-T3B-T		
(1)Packing Type	(1) T: Tube	
(2)Package Type	(2) T3B: TO-3PB, T3P: TO-3P, T47S: TO-247S	
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free	

MARKING





■ ABSOLUTE MAXIMUM RATINGS (PER DIODE) (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V _R	300	V
Working Peak Reverse Voltage	V _{RWM}	300	V
Peak Repetitive Reverse Voltage	V _{RRM}	300	V
Average Rectified Forward Current, T _C =135°C	I _{F(AV)}	30	А
Non-Repetitive Peak Surge Current 60Hz Single Half-Sine Wave	I _{FSM}	200	А
Storage Temperature	T _{STG}	+150	°C
Operating Junction Temperature	TJ	-55 ~ +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 CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ _{JC}	0.53	°C/W

■ ELECTRICAL CHARACTERISTICS (PER DIODE) (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Instantaneous Forward Voltage (Note)	V _F	I _F =30A, T _C =25°C			1.50	V
		I _F =30A, T _C =150°C			1.30	V
Instantaneous Reverse Current (Note)		V _R =300V, T _C =25°C			100	μA
		V _R =300V, T _C =150°C			500	μA
Reverse Recovery Time	t _{rr}	I _F =1.0A, di/dt=100A/µs, V _{CC} =30V, T _C =25°C			45	ns
		I _F =30A, di/dt=200A/µs, V _{CC} =195V, T _C =25°C			55	ns
Recovered Charge	Q _{rr}	I _F =30A, di/dt=200A/µs, V _{CC} =195V, T _C =25°C		50		nC
Avalanche Energy	W _{AVL}	L=20mH	20			mJ

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



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