

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

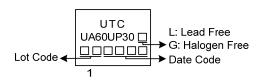
ORDERING INFORMATION

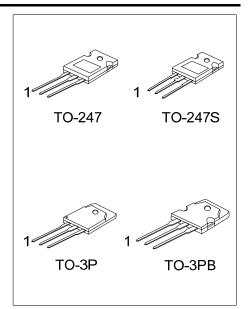
Ordering Number		Pin Assignment			Deaking	
Halogen Free	Раскаде	1	2	3	Packing	
UA60UP30G-T3B-T	TO-3PB	А	К	Α	Tube	
UA60UP30G-T3P-T	TO-3P	А	К	А	Tube	
UA60UP30G-T47-T	TO-247	Α	К	Α	Tube	
UA60UP30G-T47S-T	TO-247S	А	К	А	Tube	
	Halogen Free UA60UP30G-T3B-T UA60UP30G-T3P-T UA60UP30G-T47-T	Halogen FreePackageUA60UP30G-T3B-TTO-3PBUA60UP30G-T3P-TTO-3PUA60UP30G-T47-TTO-247	Halogen FreePackageUA60UP30G-T3B-TTO-3PBUA60UP30G-T3P-TTO-3PUA60UP30G-T47-TTO-247A	Halogen FreePackage12UA60UP30G-T3B-TTO-3PBAKUA60UP30G-T3P-TTO-3PAKUA60UP30G-T47-TTO-247AK	Halogen Free Package 1 2 3 UA60UP30G-T3B-T TO-3PB A K A UA60UP30G-T3P-T TO-3PB A K A UA60UP30G-T3P-T TO-3P A K A UA60UP30G-T47-T TO-247 A K A	

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

UA60UP30 <u>G</u> - <u>T3B</u> - <u>T</u>	(1) T: Tube
(1)Packing Type	(2) T47: TO-247, T47S: TO-247S, T3B: TO-3PB
(2)Package Type	ТЗР: ТО-ЗР
(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
Operating Junction Temperature	TJ	-55 ~ +150	°C
Storage Temperature	T _{STG}	+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)

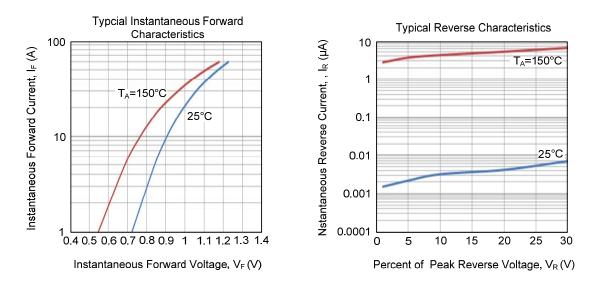
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note)	V _F	I _F =30A, T _C =25°C			1.50	V
		I _F =30A, T _C =150°C			1.30	V
Instantaneous Reverse Current (Note)	I _R	V _R =300V, T _C =25°C			100	μA
		V _R =300V, T _C =150°C			500	μA
Reverse Recovery Time	t _{rr}	I _F =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		220		nC

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



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TYPICAL CHARACTERISTICS



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