

UTC UNISONIC TECHNOLOGIES CO., LTD

UA60UP20 DIODE

ULTRAFAST RECOVERY POWER RECTIFIER

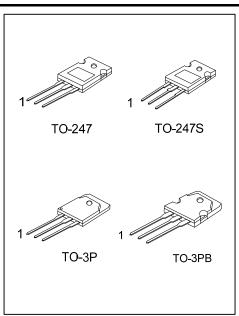
DESCRIPTION

The UTC UA60UP20 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.

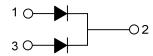
The UTC UA60UP20 is suitable for switching mode power supply and power switching circuits, etc.

FEATURES

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



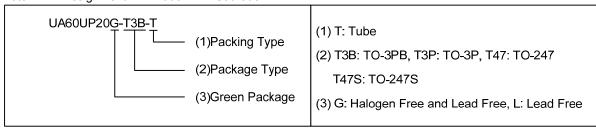
SYMBOL



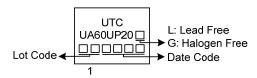
ORDERING INFORMATION

Ordering Number		Dealtage	Pin Assignment			Doolsing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UA60UP20L-T3B-T	UA60UP20G-T3B-T	TO-3PB	Α	K	Α	Tube	
UA60UP20L-T3P-T	UA60UP20G-T3P-T	TO-3P	Α	K	Α	Tube	
UA60UP20L-T47-T	UA60UP20G-T47-T	TO-247	Α	K	Α	Tube	
UA60UP20L-T47S-T	UA60UP20G-T47S-T	TO-247S	Α	K	Α	Tube	

K: Cathode Pin Assignment: A: Anode Note:



MARKING



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■ ABSOLUTE MAXIMUM RATINGS (per diode) (T_C=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
DC Blocking Voltage		V_R	200	>
Working Peak Reverse Voltage		V_{RWM}	200	>
Peak Repetitive Reverse Voltage		V_{RRM}	200	>
Average Feminard Comment	Per Leg		30	Α
Average Forward Current	Total Device	Io	60	Α
Non-Repetitive Peak Surge Current 60Hz Single Half-Sine Wave		I _{FSM}	120	А
Operating Junction Temperature		T_J	+150	°C
Storage Temperature		T _{STG}	-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 (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT	
Junction to Case	$\theta_{ m JC}$	0.53	°C/W	

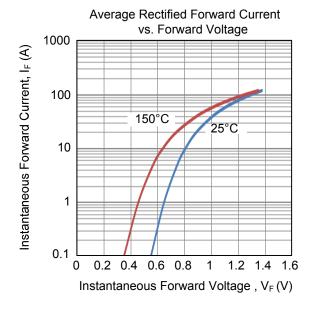
■ ELECTRICAL CHARACTERISTICS (per diode) T_A=25°C unless otherwise noted

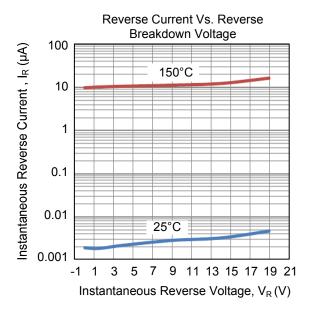
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantance of Familiary (Nata)	V _F	I _F =30A, T _C =25°C			1.50	V
Instantaneous Forward Voltage (Note)		I _F =30A, T _C =150°C			1.30	V
Instantaneous Reverse Current (Note)	I _R	V _R =200V, T _C =25°C			100	μA
		V _R =200V, T _C =150°C			500	μA
Davaraa Daaayan, Tima	t _{rr}	I _F =1.0A, di/dt=100A/μs,		15	45	ns
		V _{CC} =30V			40	115
Reverse Recovery Time		I _F =30A, di/dt=200A/μs,			55	ns
		V _{CC} =100V			55	
Recovered Charge	(.)	I _F =30A, di/dt=200A/μs,		128		nC
Trecovered Charge		V _{CC} =100V		120		

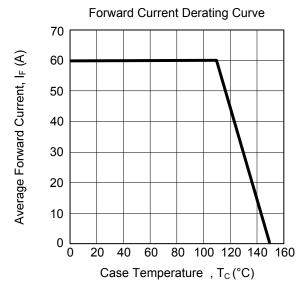
Note: Pulse Test: Pulse Width=300µs, Duty Cycle=2.0%.

UA60UP20 DIODE

■ TYPICAL CHARACTERISTICS







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