

UNISONIC TECHNOLOGIES CO., LTD

U20UC30 **Preliminary DIODE**

20A DIODE

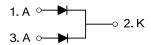
DESCRIPTION

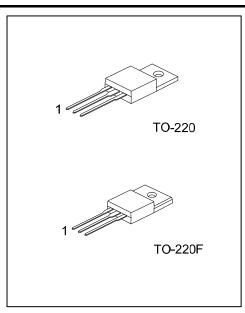
The UTC U20UC30 is a 20A diode, it uses UTC's advanced technology to provide the customers with low forward voltage drop and fast switching capability.

FEATURES

- * Low forward voltage drop
- * Fast switching capability

SYMBOL

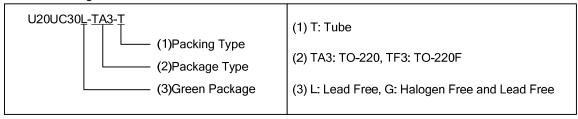




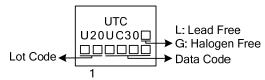
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	- Packing	
U20UC30L-TA3-T	U20UC30G-TA3-T	TO-220	Α	K	Α	Tube	
U20UC30L-TF3-T	U20UC30G-TF3-T	TO-220F	Α	K	Α	Tube	

Note: Pin Assignment: G: Gate D: Drain S: Source



MARKING



www.unisonic.com.tw 1 of 3 VER.a

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified.)

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Working Peak Reverse Voltage	V_{RWM}	300	>
DC Blocking Voltage	V_{RM}	300	>
Average Rectified Output Current	Ιο	20	Α
Peak Forward Surge Current 1/2 60hz	I _{FSM}	150	Α
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	1	Α
Voltage Rate of Change (at Rated V _R)	dV/dt	10000	V/µs
Operating and Storage Temperature Range	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 (PER LEG)

PARAMETER		SYMBOL	RATINGS	UNIT
Junction to Ambient		θ_{JA}	62.5	°C/W
Junction to Case	TO-220	0	2	°0.044
	TO-220F	Alc	θ _{JC}	5

■ ELECTRICAL CHARACTERISTICS (T_A =25°C unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
Instantaneous Famuerd Valtage (Niete)	V _F	I _F =10A	T _J =25°C		1.0	1.3	V
Instantaneous Forward Voltage (Note)			T _J =125°C		0.85	1.0	V
Reverse Current	I _R	At V _{RM}	T _J =25°C			25	uA
			T _J =125°C			0.1	mA

Note: Pulse width < 300uS, Duty cycle < 2%.

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