

UTC UNISONIC TECHNOLOGIES CO., LTD

FCU20UC30 **Preliminary DIODE**

SILICON DIODE

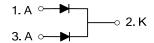
DESCRIPTION

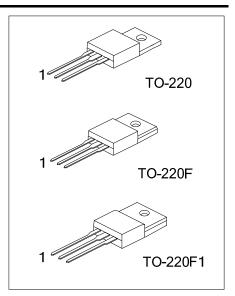
The UTC FCU20UC30 is a diode, it uses UTC's advanced technology to provide customers with low peak reverse current, etc.

FEATURES

* Low peak reverse current

SYMBOL

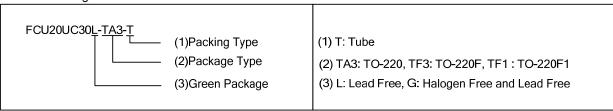




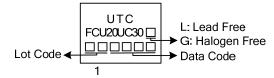
ORDERING INFORMATION

Ordering Number		Dackage	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
FCU20UC30L-TA3-T	FCU20UC30G-TA3-T	TO-220	Α	K	Α	Tube	
FCU20UC30L-TF3-T	FCU20UC30G-TF3-T	TO-220F	Α	K	Α	Tube	
FCU20UC30L-TF1-T	FCU20UC30G-TF1-T	TO-220F1	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



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

PARAMETER		SYMBOL	RATINGS	UNIT		
Repetitive Peak Reverse Voltage		V_{RRM}	300	V		
Average Rectified Forward Current	Per Leg		10	Α		
(T _C =104°C)	Total	l _o	20	Α		
R.M.S Forward Current		I _{F(RMS)}	22.2	Α		
Surge Forward Current		I _{FSM}	120	Α		
Storage Temperature		T _{STG}	-40~+150	°C		
Operating Junction Temperature		TJ	-40~+150	°C		
Mounting Torque		F _{TOR}	0.5	N·m		

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 RESISTANCE

PARAMETER	SYMBOL	RATINGS	UNIT	
Junction to Case	θ_{JC}	2	°C/W	

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Peak Reverse Current	I _{RM}	T _J =25°C, V _{RM} =V _{RRM}			25	μΑ
Peak Forward Voltage	V_{FM}	T _J =25°C, I _{FM} =10A		1.10	1.30	V
Reverse Recovery Time	t _{RR}	I _{FM} =10A, -di/dt=50A/µs, T _J =25°C		23	33	ns

Notes: 1. Short duration pulse test used to minimize self-heating effect.

^{2.} Thermal resistance junction to case mounted on heatsink.

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