

UTC UNISONIC TECHNOLOGIES CO., LTD

TGBR10U120C

Preliminary

DIODE

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC TGBR10U120C is a dual trench mos schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

FEATURES

* Ultra low forward voltage drop

* High switching speed

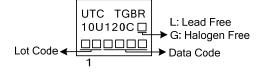
SYMBOL

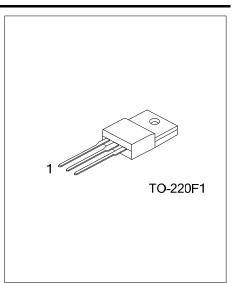
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dooking
Lead Free	Halogen Free	Package	1	2	3	Packing
TGBR10U120CL-TF1-T TGBR10U120CG-TF1-T		TO-220F1	А	К	А	Tube
Note: Pin Assignment: A: Anode K: Cathode						

TGBR10U120CL-TF1-T	(1) T: Tube
(2)Package Type	(2) TF1: TO-220F1
(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING





Preliminary

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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.						
PARAMETER		SYMBOL	RATINGS	UNIT		
DC Blocking Voltage		V _{RM}	120	V		
Working Peak Reverse Voltage		V _{RWM}	120	V		
Peak Repetitive Reverse Voltage		V _{RRM}	120	V		
Average Rectified Output Current Per Device	Per Leg	- I _o	5	А		
	Fotal		10	А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	120	А		
Operating Junction Temperature		TJ	-65 ~ +150	°C		
Storage Temperature		T _{STG}	-65 ~ +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 (PER LEG)

PARAMETER	SYMBOL	RATINGS	UNIT	
Typical Thermal Resistance	θ _{JC}	4	°C/W	

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{(BR)R}	I _R =0.50mA	120			V
Forward Voltage Drop		I _F =5A, T _J =25°C			0.70	V
		I _F =5A, T _J =125°C			0.65	V
Leakage Current	RM	V _R =120V, T _J =25°C			100	μA
		V _R =120V, T _J =125°C			20	mA

Note: Pulse Test: Pulse width \leq 300µs, Duty cycle \leq 2%.



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