

UNISONIC TECHNOLOGIES CO., LTD

TGBR40U100C

Preliminary

DIODE

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC **TGBR40U100C** 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

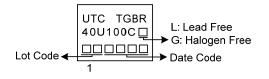
ORDERING INFORMATION

Ordering Number		Dealiana	Pin Assignment			De alvie e	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR40U100CL-TA3-T	TGBR40U100CG-TA3-T	TO-220	А	к	А	Tube	
TGBR40U100CL-TF3-T	TGBR40U100CG-TF3-T	TO-220F	А	к	А	Tube	
TGBR40U100CL-T3P-T	TGBR40U100CG-T3P-T	TO-3P	Α	К	А	Tube	
Note: Pin Assignment: A: Anode K: Cathode							

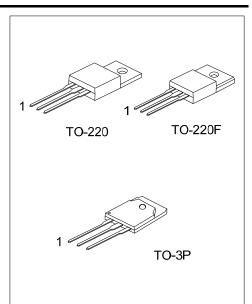
Note: Pin Assignment: A: Anode K: Cathode

TGBR40U100CG-TA3-T		(1) T: Tube			
	(2)Package Type	(2) TA3: TO-220, TF3: TO-220F, T3P: TO-3P			
	(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free			

MARKING







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

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

PARAMETER	SYMBOL	RATINGS	UNIT		
DC Blocking Voltage	V _{RM}	100	V		
Working Peak Reverse Voltage	V _{RWM}	100	V		
Peak Repetitive Reverse Voltage	V _{RRM}	100	V		
Augusta Destified Output Output Des Deutes		20	А		
Average Rectified Output Current Per Device Total	IO	40	А		
Non-Repetitive Peak Forward Surge Current 8.3ms S Half Sine-Wave Superimposed on Rated Load	ingle I _{FSM}	250	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	
	TO-220		2	°C/W	
Typical Thermal Resistance	TO-220F	θ _{JC}	4	°C/W	
	TO-3P		1.5	°C/W	

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

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{(BR)R}	I _R =0.50mA	100			V
		I _F =20A, T _J =25°C			0.65	V
Forward Voltage Drop	V_{FM}	I _F =20A, T _J =125°C		0.61	V	
Lashana Quinnant	I _{RM}	V _R =100V, T _J =25°C			500	μA
Leakage Current		V _R =100V, T _J =125°C			45	mA

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



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