

UNISONIC TECHNOLOGIES CO., LTD

TGBR10S100C Preliminary DIODE **DUAL TRENCH MOS** SCHOTTKY BARRIER RECTIFIER 100 TO-220 TO-220F DESCRIPTION The UTC TGBR10S100C 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

FEATURES

speed, etc.

*Super low forward voltage drop * High switching speed

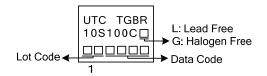
SYMBOL

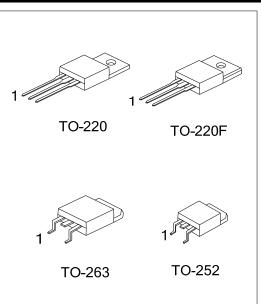
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Packing	
Lead Free	Halogen Free	Package	1	2	3	Facking	
TGBR10S100CL-TA3-T	TGBR10S100CG-TA3-T	TO-220	Α	К	Α	Tube	
TGBR10S100CL-TF3-T	TGBR10S100CG-TF3-T	TO-220F	Α	К	Α	Tube	
TGBR10S100CL-TN3-R	TGBR10S100CG-TN3-R	TO-252	Α	К	Α	Tape Reel	
TGBR10S100CL-TQ2-T	TGBR10S100CG-TQ2-T	TO-263	Α	К	Α	Tube	
TGBR10S100CL-TQ2-R	TGBR10S100CG-TQ2-R	TO-263	Α	К	Α	Tape Reel	
Note: Pin Assignment: A: Anode K: Cathode							
TGBR10S100CL-TA3-T T → T → (1)Packing Type		(1) T: Tube, R: Ta	pe Reel				

TGBRT0ST00CL-TA3-T	(1) T: Tube, R: Tape Reel
(2)Package Type	(2) TA3: TO-220, TF3: TO-220F, TN3: TO-252
	TQ2: TO-263
(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.

For capacitance load, derate current by 20%.					
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	
Average Destified Output Current Per Device	Per Leg	Ι _Ο	5	А	
Average Rectified Output Current Per Device	Total		10	А	
Non-Repetitive Peak Forward Surge Current 8. Half Sine-Wave Superimposed on Rated Load	3ms Single	I _{FSM}	150	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	
Tunical Thormal Desistence	TO-220		2	°C/W	
	TO-220F	0	4	°C/W	
Typical Thermal Resistance	TO-252	θ _{JC}	6	°C/W	
	TO-263		3	°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	100			V
		I _F =5A, T _J =25°C			0.67	V
Forward Voltage Drop	V _{FM}	I _F =5A, T _J =125°C			0.60	V
Leakage Current	DM	V _R =100V, T _J =25°C			100	μA
		V _R =100V, T _J =125°C			30	mA

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



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

