

TGBR10L100C

Preliminary

DIODE

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC **TGBR10L100C** 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

* Low forward voltage drop * High switching speed

SYMBOL

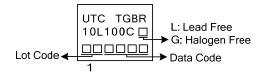
ORDERING INFORMATION

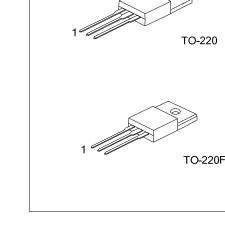
Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR10L100CL-TA3-T	TGBR10L100CG-TA3-T	TO-220	А	к	А	Tube	
TGBR10L100CL-TF3-T	TGBR10L100CG-TF3-T	TO-220F	А	к	А	Tube	

Note: Pin Assignment: A: Anode K: Cathode

TGBR10L100CL-TA3-T		
	 (1)Packing Type (2)Package Type (3)Green Package 	(1) T: Tube (2) TA3: TO-220, TF3: TO-220F (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}	100	V	
Working Peak Reverse Voltage		V _{RWM}	100	V	
Peak Repetitive Reverse Voltage		V _{RRM}	100	V	
Average Rectified Output Current Per	Per Leg	-	5	А	
Device	Total	lo	10	А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	80	А	
Operating Junction Temperature		TJ	-65 ~ +150	°C	
Storage Temperature		T _{STG}	-65 ~ +150	С°	

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	
Turniand Thermool Desintenes	TO-220	0	2	°C/W	
Typical Thermal Resistance	TO-220F	θις	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	100			V
Forward Voltage Dran	V _{FM}	I _F =5A, T _J =25°C			0.77	V
Forward Voltage Drop		I _F =5A, TJ=125°C			0.72	V
Leakage Current	DM	V _R =100V, T _J =25°C			100	μA
		V _R =100V, T _J =125°C			20	mA

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



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