

UNISONIC TECHNOLOGIES CO., LTD

TGBR10L50C

Preliminary

DIODE

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

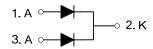
DESCRIPTION

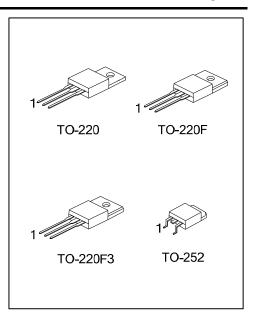
The UTC **TGBR10L50C** is a dual trench mos schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

■ FEATURES

- * Low forward voltage drop
- * High switching speed

■ SYMBOL

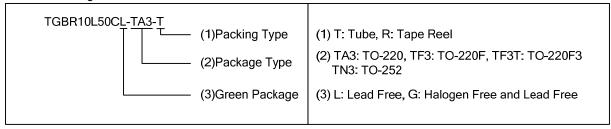




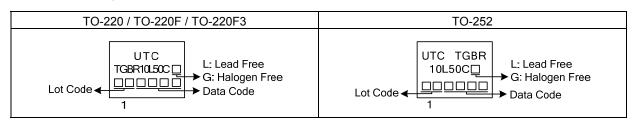
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR10L50CL-TA3-T	TGBR10L50CG-TA3-T	TO-220	Α	K	Α	Tube	
TGBR10L50CL-TF3-T	TGBR10L50CG-TF3-T	TO-220F	Α	K	Α	Tube	
TGBR10L50CL-TF3T-T	TGBR10L50CG-TF3T-T	TO-220F3	Α	K	Α	Tube	
TGBR10L50CL-TN3-R	TGBR10L50CG-TN3-R	TO-252	Α	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



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■ 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}	50	V
Working Peak Reverse Voltage		V_{RWM}	50	V
Peak Repetitive Reverse Voltage		V_{RRM}	50	V
Average Rectified Output Current	Per Leg		5	Α
(T _C =140°C)	Total	I _O	10	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	90	Α
Operating Junction Temperature		T_J	-65 ~ +175	°C
Storage Temperature		T _{STG}	-65 ~ +175	°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	TO-220		2	
	TO-220F/TO-220F3	θ_{JC}	4	°C/W
	TO-252		6	

■ 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	50			V
Forward Voltage Drop	VEM	I _F =5.0A, T _J =25°C			0.62	V
		I _F =5.0A, T _J =125°C			0.57	V
Leakage Current	РM	V _R =50V, T _J =25°C			300	μΑ
		V _R =50V, T _J =125°C			30	mΑ

Note: Pulse Test: Pulse width $\leq 300 \mu s$, Duty cycle $\leq 2\%$.

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