UTC UNISONIC TECHNOLOGIES CO., LTD

TGBR10L100

Preliminary

DIODE

TRENCH MOS SCHOTTKY BARRIER RECTIFIER

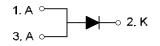
DESCRIPTION

The UTC **TGBR10L100** is a 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



1 TO-220 TO-220F TO-220F

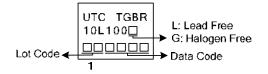
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Docking	
Lead Free	Halogen Free	Fackage	1	2	3	Packing	
TGBR10L100L-TA3-T	TGBR10L100G-TA3-T	TO-220	Α	К	Α	Tube	
TGBR10L100L-TF3-T	TGBR10L100G-TF3-T	TO-220F	Α	К	А	Tube	
TGBR10L100L-TN3-R	TGBR10L100G-TN3-R	TO-252	Α	К	А	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode

TGBR10L100L-TA3-T	(1) T: Tube, R: Tape Reel
(2)Package Type	(2) TA3: TO-220, TF3: TO-220F, TN3: TO-252
(3)Lead Free	(3) L: Lead Free, G: Halogen 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
Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Average Rectified Output Current	lo	10	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	200	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	θ _{JC}	2	°C/W
Typical Thermal Resistance	TO-220F		4	°C/W
	TO-252		6	°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 =0.5mA	100			V
Forward Voltage Drop	VEM	I _F =10A, T _J =25°C			0.80	V
		I _F =10A, T _J =125°C			0.75	V
Leakage Current	RM	V _R =100V, T _J =25°C			100	μA
		V _R =100V, T _J =125°C			10	mA

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



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