

TGBR30L100

TRENCH MOS SCHOTTKY BARRIER RECTIFIER

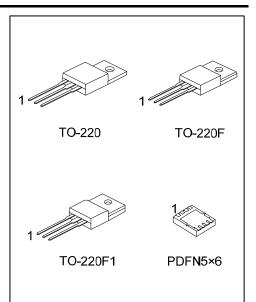
DESCRIPTION

The UTC **TGBR30L100** 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.

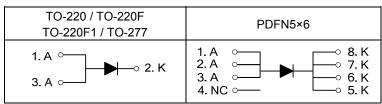
FEATURES

* Low forward voltage drop

* High switching speed



SYMBOL

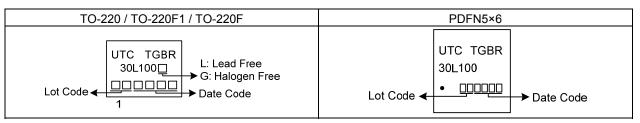


ORDERING INFORMATION

Ordering Number		Deekege	Pin Assignment						Dooking		
Lead Free	Halogen Free	Package	1	2	3	4	5	6	7	8	Packing
TGBR30L100L-TA3-T	TGBR30L100G-TA3-T	TO-220	А	Κ	А	-	1	I	-	-	Tube
TGBR30L100L-TF1-T	TGBR30L100G-TF1-T	TO-220F1	А	Κ	А	-	1	I	-	-	Tube
TGBR30L100L-TF3-T	TGBR30L100G-TF3-T	TO-220F	А	Κ	А	-	1	I	-	-	Tube
TGBR30L100L-P5060-R	TGBR30L100G-P5060-R	PDFN5×6	А	А	А	NC	Κ	K	Κ	Κ	Tape Reel
Note: Pin Assignment: A: Anode K: Cathode											

TGBR30L100G-TA3-T
(1)Packing Type(1)Packing Type(1) T: Tube, R: Tape Reel
(2)Package Type(2)Package Type(2)Package Type(2)Package Type(3)Green Package(3)G: Halogen Free and Lead Free, L: Lead Free

MARKING



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

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

FOI capacitance load, derate current by 20%.			1	
PARAMETER	SYMBOL	RATINGS	UNIT	
DC Blocking Voltage	V _{RM}	100	V	
WorkingPeak Reverse Voltage	V _{RWM}	100	V	
Peak Repetitive Reverse Voltage	V _{RRM}	100	V	
Average Rectified Output Current	lo	30	А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	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
Typical Thermal Resistance	TO-220		2	°C/W
	TO-220F TO-220F1	θ _{JC}	4	°C/W
	PDFN5×6		2.5	°C/W

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

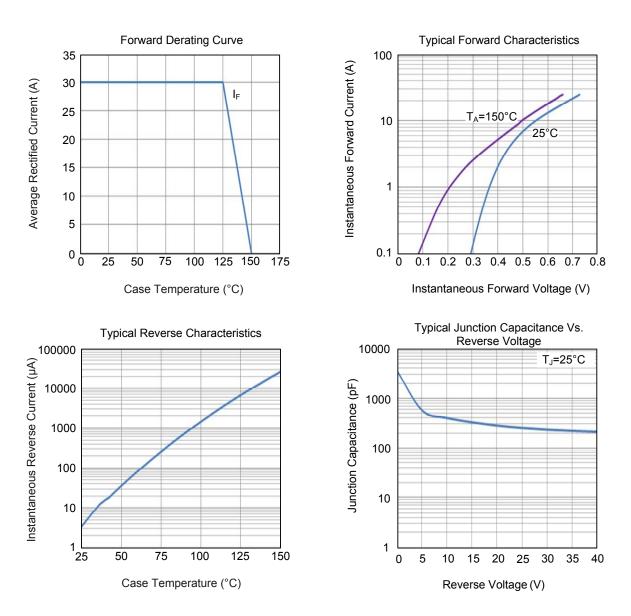
PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{(BR)R}	I _R =0.5mA	100			V
Forward Voltage Drop	V _{FM}	I _F =30A, TJ=25°C			0.9	V
		I _F =30A, T _J =125°C			0.8	V
Lashana Ourrant		V _R =100V, T _J =25°C			100	μA
Leakage Current	IRM	V _R =100V, T _J =125°C			35	mA

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



TGBR30L100

TYPICAL CHARACTERISTICS



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. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.



UNISONIC TECHNOLOGIES CO., LTD www.unisonic.com.tw