UNISONIC TECHNOLOGIES CO.,LTD

TGBR30L100

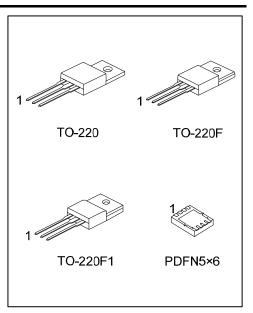
TRENCH MOS SCHOTTKY BARRIER RECTIFIER

■ 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



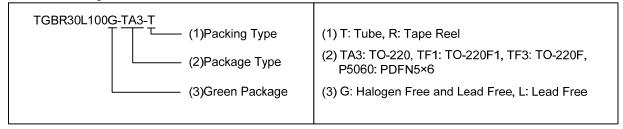
■ SYMBOL

TO-220 / TO-220F / TO-220F1	PDFN5×6					
1. A ○ 2. K 3. A ○	1. A 0 8. K 2. A 0 7. K 3. A 0 6. K 4. NC 0 5. K					

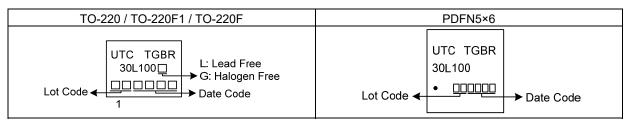
■ ORDERING INFORMATION

Ordering Number		Daalsana	Pin Assignment						Daaldaa		
Lead Free	Halogen Free	Package	1	2	3	4	5	6	7	8	Packing
TGBR30L100L-TA3-T	GBR30L100L-TA3-T TGBR30L100G-TA3-T		Α	K	Α	•	ı	•	-	-	Tube
TGBR30L100L-TF1-T	0L-TF1-T TGBR30L100G-TF1-T		Α	K	Α	•	•	•	1	1	Tube
TGBR30L100L-TF3-T	TGBR30L100G-TF3-T	TO-220F	Α	Κ	Α	•	ı	•	ı	ı	Tube
TGBR30L100L-P5060-R	TGBR30L100G-P5060-R	PDFN5×6	Α	Α	Α	NC	Κ	Κ	Κ	Κ	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode



MARKING



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TGBR30L100

■ 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
Vorking Peak Reverse Voltage		V_{RWM}	100	V
Peak Repetitive Reverse Voltage		V_{RRM}	100	V
Average Rectified Output Current		lo	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	TO-220 TO-220F TO-220F1	I _{FSM}	220	А
	PDFN5×6		120	Α
Operating Junction Temperature		T_J	-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		
	TO-220F	θјс	4	°C/M	
	TO-220F1		4	°C/W	
	PDFN5×6		2.5	°C/W	

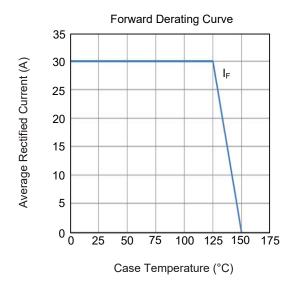
■ ELECTRICAL CHARACTERISTICS (PER LEG) (T_A=25°C, unless otherwise specified.)

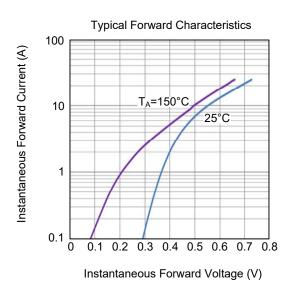
PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	I _R =0.5mA	100			V
Forward Voltage Drop	VEM	I _F =30A, T _J =25°C			0.9	V
		I _F =30A, T _J =125°C			0.8	V
Leakage Current	IRM.	V _R =100V, T _J =25°C			100	μA
		V _R =100V, T _J =125°C			35	mA

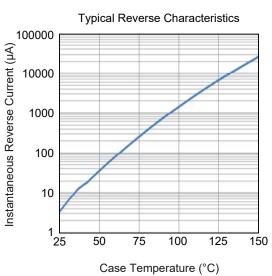
Note: Pulse Test: Pulse width ≤ 300µs, Duty cycle ≤ 2%.

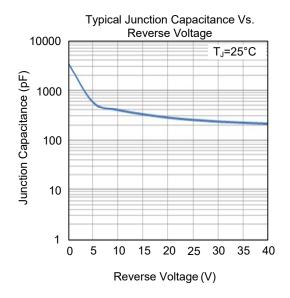
TGBR30L100 DIODE

TYPICAL CHARACTERISTICS









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