

UNISONIC TECHNOLOGIES CO., LTD

TGBR30V100C

Preliminary

DIODE

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

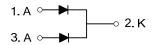
DESCRIPTION

The UTC **TGBR30V100C** is 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

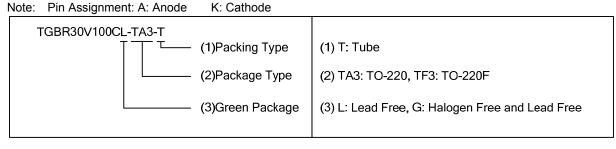
- * Very low forward voltage drop
- * High switching speed

■ SYMBOL

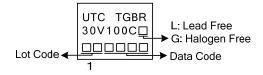


ORDERING INFORMATION

Ordering Number		Dackago	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR30V100CL-TA3-T	TGBR30V100CG-TA3-T	TO-220	Α	K	Α	Tube	
TGBR30V100CL-TF3-T	TGBR30V100CG-TF3-T	TO-220F	Α	K	Α	Tube	



■ MARKING



TO-220F

■ **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 Device	Per Leg	l _o	15	Α
	Total		30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	160	А
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	
Turning Thomas Decistors	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 =0.5mA	100			V
Forward Voltage Drop	I V _{EM}	I _F =15A, T _J =25°C			0.8	V
		I _F =15A, T _J =125°C			0.74	V
Leakage Current	I DM	V _R =100V, T _J =25°C			300	μΑ
		V _R =100V, T _J =125°C			45	mA

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

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