

UNISONIC TECHNOLOGIES CO., LTD

TGBR30S150C

Preliminary

DIODE

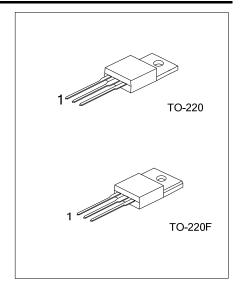
DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

■ DESCRIPTION

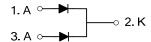
The UTC **TGBR30S150C** is a dual trench mos schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

■ FEATURES

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



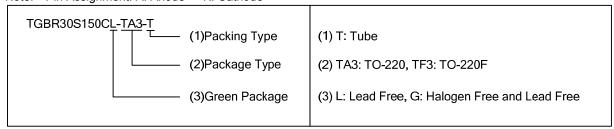
■ SYMBOL



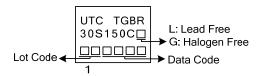
■ ORDERING INFORMATION

Ordering Number		Packago	Pin Assignment			Packing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR30S150CL-TA3-T	TGBR30S150CG-TA3-T	TO-220	A	K	Α	Tube	
TGBR30S150CL-TF3-T	TGBR30S150CG-TF3-T	TO-220F	Α	K	Α	Tube	

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}	150	V
Working Peak Reverse Voltage		V_{RWM}	150	V
Peak Repetitive Reverse Voltage		V_{RRM}	150	V
Average Rectified Output Current Per Device	Per Leg		15	Α
Average Rectilled Output Current Fel Device	Total	I _O	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	180	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
Turning! Thormal Desigtance	TO-220	0	2	°C/W
Typical Thermal Resistance	TO-220F	$\Theta_{ m JC}$	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 =0.50mA	150			V
Forward Valtors Dron	V_{FM}	I _F =15A, T _J =25°C			0.89	V
Forward Voltage Drop		I _F =15A, T _J =125°C			0.79	V
Lookana Cumant	I _{RM}	V _R =150V, T _J =25°C			100	μΑ
Leakage Current		V _R =150V, T _J =125°C			10	mA

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

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