UTC UNISONIC TECHNOLOGIES CO., LTD

TGBR20V150C

Advance

DIODE

DUAL TRENCH MOS SCHOTTKY BARRIER **RECTIFIER**

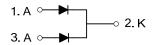
DESCRIPTION

The UTC TGBR20V150C 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

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

SYMBOL



ORDERING INFORMATION

Note: Pin Assignment: A: Anode

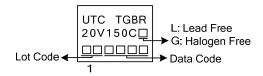
Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR20V150CL-TA3-T	TGBR20V150CG-TA3-T	TO-220	Α	K	Α	Tube	
TGBR20V150CL-TF3-T	TGBR20V150CG-TF3-T	TO-220F	Α	K	Α	Tube	

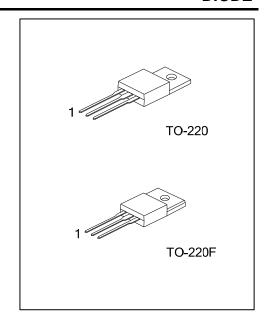
TGBR20V150CL-TA3-T (1)Packing Type (1) T: Tube (2)Package Type (2) TA3: TO-220, TF3: TO-220F

K: Cathode

(3)Green Package

MARKING





(3) L: Lead Free, G: Halogen Free and Lead Free

■ ABSOLUTE MAXIMUM RATINGS (PER LEG) (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	l _o	10	Α
	Total		20	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	200	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
Junction to Ambient		θ_{JA}	62.5	°C/W
lunction to Coop	TO-220	0	2	°C/\\
Junction to Case	TO-220F	θ _{JC}	3.31	°C/W

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I _R =0.50mA	150			V
Forward Voltage Drop	.,	I _F =10A, T _J =25°C			0.85	V
	V_{FM}	I _F =10A, T _J =125°C			0.75	٧
Lookaga Current (Note 1)		V _R =150V, T _J =25°C			100	μΑ
Leakage Current (Note 1)	IRM	V _R =150V. T _{.I} =125°C			20	mΑ

Notes: 1. Short duration pulse test used to minimize self-heating effect.

^{2.} Thermal resistance junction to case mounted on heatsink.

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