TGBR20V100C

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

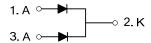
■ DESCRIPTION

The UTC **TGBR20V100C** 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

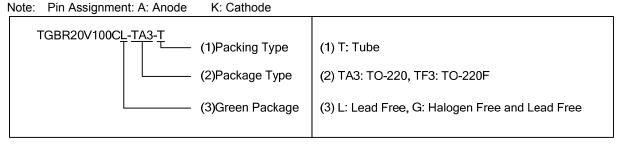
- * Very low forward voltage drop
- * High switching speed

■ SYMBOL

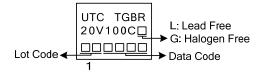


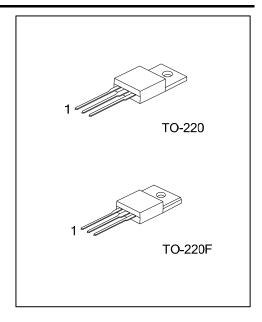
■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR20V100CL-TA3-T	TGBR20V100CG-TA3-T	TO-220	Α	K	Α	Tube	
TGBR20V100CL-TF3-T	TGBR20V100CG-TF3-T	TO-220F	Α	K	Α	Tube	



■ MARKING





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TGBR20V100C

■ 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}	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	10	Α
Average Rectified Output Current Per Device	Total		20	Α
Non-Repetitive Peak Forward Surge Current 8. Half Sine-Wave Superimposed on Rated Load	3ms Single	I _{FSM}	180	Α
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	0	2	°C/W	
	TO-220F	$\theta_{ m JC}$	4	°C/W	

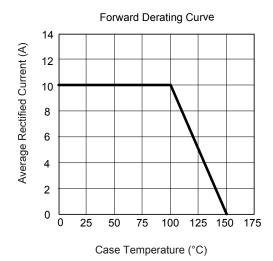
■ ELECTRICAL CHARACTERISTICS (PER LEG) (T_A =25°C unless otherwise specified.)

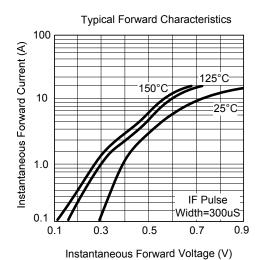
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	I _R =0.50mA	100			V
Forward Voltage Drop	VEM	I _F =10A, T _J =25°C			0.75	V
		I _F =10A, T _J =125°C			0.70	V
Leakage Current	I DM	V _R =100V, T _J =25°C			100	μΑ
		V _R =100V, T _J =125°C			10	mA

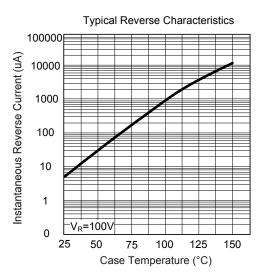
Note: Pulse Test: Pulse width \leq 300 μ s, Duty cycle \leq 2%.

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■ TYPICAL CHARACTERISTICS (PER LEG)







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