UNISONIC TECHNOLOGIES CO., LTD

TGBR40V100C

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

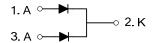
DESCRIPTION

The UTC **TGBR40V100C** 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

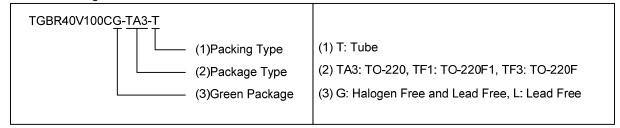
■ SYMBOL



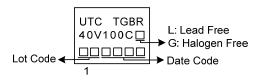
■ ORDERING INFORMATION

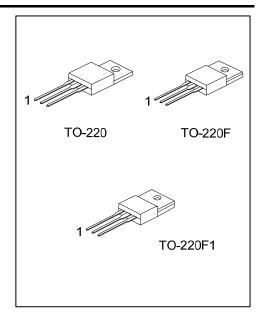
Ordering Number		Dookogo	Pin Assignment			Da akima	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR40V100CL-TA3-T	TGBR40V100CG-TA3-T	TO-220	Α	K	Α	Tube	
TGBR40V100CL-TF1-T	TGBR40V100CG-TF1-T	TO-220F1	Α	K	Α	Tube	
TGBR40V100CL-TF3-T	TGBR40V100CG-TF3-T	TO-220F	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING





TGBR40V100C

■ 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	20	Α
	Total		40	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	250	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
	TO-220		2	°C/W
Typical Thermal Resistance	TO-220F TO-220F1	θ _{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 (Note 1)	$V_{(BR)R}$	I _R =0.50mA	100			V
Forward Voltage Drop	I VEM	I _F =20A, T _J =25°C			0.75	V
		I _F =20A, T _J =125°C			0.70	V
Leakage Current (Note 1)	I DM	V _R =100V, T _J =25°C			200	μA
		V _R =100V, T _J =125°C			20	mA

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

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

TGBR40V100C

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