

UNISONIC TECHNOLOGIES CO., LTD

TGBR40S60C

Preliminary

DIODE

TO-220

TO-220F

DUAL TRENCH MOS SCHOTTKY BARRIER **RECTIFIER**

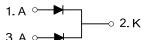
DESCRIPTION

The UTC TGBR40S60C 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

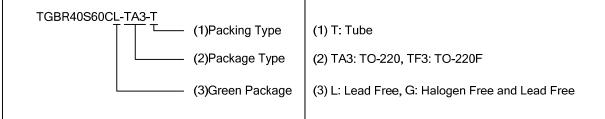




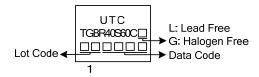
ORDERING INFORMATION

Ordering Number		Dackage	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR40S60CL-TA3-T	TGBR40S60CG-TA3-T	TO-220	Α	K	Α	Tube	
TGBR40S60CL-TF3-T	TGBR40S60CG-TF3-T	TO-220F	Α	K	Α	Tube	

Pin Assignment: A: Anode K: Cathode Note:



MARKING



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■ 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}	60	V
Working Peak Reverse Voltage		V_{RWM}	60	V
Peak Repetitive Reverse Voltage		V_{RRM}	60	V
Average Rectified Output Current Per Device	Per Leg		20	Α
Average Reclined Output Current Per Device	Total	I _O	40	Α
Non-Repetitive Peak Forward Surge Current 8 Half Sine-Wave Superimposed on Rated Load	•	I _{FSM}	SM 260	
Operating Junction Temperature		TJ	-65 ~ +150	Ô
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	60			V
Forward Voltage Drop	V _{EM}	I _F =20A, T _J =25°C			0.60	V
		I _F =20A, T _J =125°C			0.55	٧
Leakage Current (Note 1)	I DM	V _R =60V, T _J =25°C			500	μΑ
		V _R =60V, T _J =125°C			100	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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