

UNISONIC TECHNOLOGIES CO., LTD

TGBR40S80C

Advance

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC TGBR40S80C 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

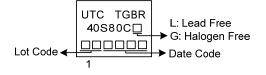
* High switching speed

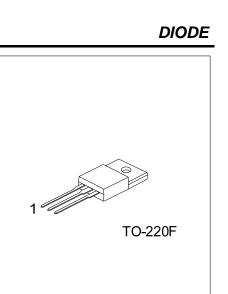
SYMBOL

ORDERING INFORMATION							
Ordering Number		Deekere	Pin Assignment			Deeking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR40S80CL-TF3-T	TGBR40S80CG-TF3-T	TO-220F	А	К	А	Tube	
Note: Pin Assignment: A: Anode K: Cathode							

TGBR40S80CG-TF3-T │	(1) T: Tube
(2)Package Type	(2) TF3: TO-220F
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING





■ 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%.

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PARAMETER		SYMBOL	RATINGS	UNIT		
DC Blocking Voltage		V _{RM}	80	V		
Average Rectified Output Current	Per Leg		20	А		
(T _C =140°C)	Total	IO	40	А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	120	А		
Operating Junction Temperature		ΤJ	-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	θ _{JC}	2	°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 =0.5mA	80			V
		I _F =20A, T _J =25°C		0.58	0.65	V
Forward Voltage Drop	V_{FM}	I _F =20A, T _J =125°C	0.62	V		
Lashana Qumant		V _R =80V, T _J =25°C			100	μA
Leakage Current	V_{R} =80V, T _J =125°C			10	mA	

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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