

UNISONIC TECHNOLOGIES CO., LTD

TGBR20S80C

Preliminary

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC **TGBR20S80C** 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

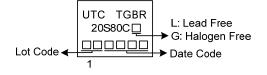
ORDERING INFORMATION

1 TO-252

Ordering Number		Deekege	Pin Assignment			Decking
Lead Free	Halogen Free Package		1	2	3	Packing
TGBR20S80CL-TN3-R TGBR20S80CG-TN3-R		TO-252	А	К	А	Tape Reel
Note: Pin Assignment: A: Anode K: Cathode						
TGBR20S80CG-TN3-R						

TGBR20S80CG-TN3-R	
T	(1) R: Tape Reel
(2)Package Type	(2) TN3: TO-252
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING



■ 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}	80	V	
Working Peak Reverse Voltage		V _{RWM}	80	V	
Peak Repetitive Reverse Voltage		V _{RRM}	80	V	
Average Rectified Output Current Per Device	Per Leg	lo	10	А	
	Total		20	А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single		I _{FSM}	150	٨	
Half Sine-Wave Superimposed on Rated Load			150	A	
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
Junction to Case	θ」с	6	°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	80			V
	VEM	I⊧=10A, T」=25°C			0.62	V
Forward Voltage Drop		I⊧=10A, Tյ=125°C			0.6	V
Leakage Current (Note 1)	I _{RM}	V _R =80V, T _J =25°C			300	μA
		V _R =80V, T _J =125°C			45	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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