UTC UNISONIC TECHNOLOGIES CO., LTD

TGBR30S100C

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC **TGBR30S100C** 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



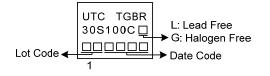
ORDERING INFORMATION

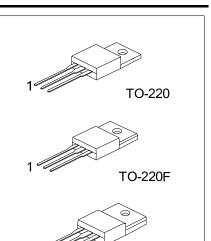
Ordering Number		Package	Pin Assignment			Packing	
Lead Free	Halogen Free	T ackage	1	2	3	racking	
TGBR30S100CL-TA3-T	TGBR30S100CG-TA3-T	TO-220	А	к	А	Tube	
TGBR30S100CL-TF1-T	TGBR30S100CG-TF1-T	TO-220F1	А	к	А	Tube	
TGBR30S100CL-TF3-T	TGBR30S100CG-TF3-T	TO-220F	А	к	А	Tube	
Nate: Dia Assignment: A: Anada K: Cathada							

Note: Pin Assignment: A: Anode K: Cathode

TGBR30S100CG-TA3-T	S100CG-TA3-T T T (1)Packing Type	(1) T: Tube
	(2)Package Type (3)Green Package	(2) TA3: TO-220, TF1: TO-220F1, TF3: TO-220F (3) G: Halogen Free and Lead Free, L: Lead Free

MARKING





TO-220F1

■ 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		RATINGS	UNIT		
DC Blocking Voltage		100	V		
Working Peak Reverse Voltage		100	V		
Peak Repetitive Reverse Voltage		100	V		
Per Leg		15	А		
Total	IO	30	А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		105	•		
		135	A		
Operating Junction Temperature		-65 ~ +150	°C		
Storage Temperature		-65 ~ +150	°C		
	Total	Total Io	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		

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/W
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	100			V
Forward Voltage Drop	V_{FM}	I _F =15A, T _J =25°C			0.75	V
		I _F =15A, T _J =125°C			0.65	V
Leakage Current (Note 1)	DM	V _R =100V, T _J =25°C			200	μA
		V _R =100V, T _J =125°C			20	mA

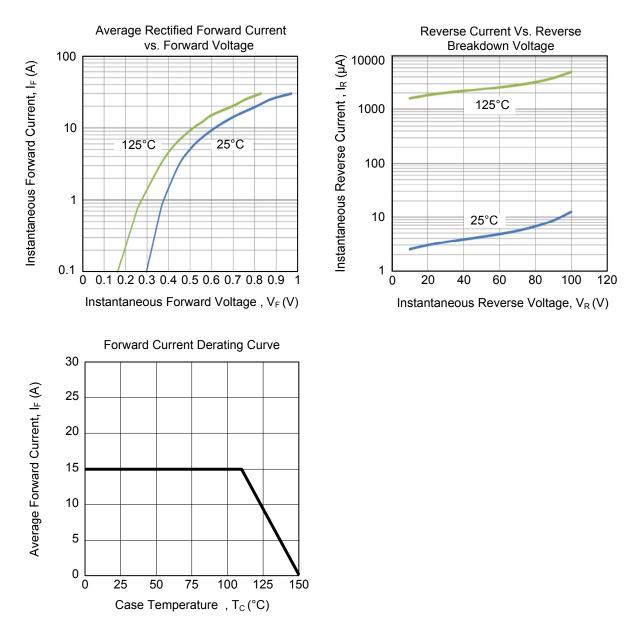
Notes: 1. Short duration pulse test used to minimize self-heating effect.

2. Thermal resistance junction to case mounted on heatsink.



TGBR30S100C

TYPICAL CHARACTERISTICS



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