TGBR30L45C

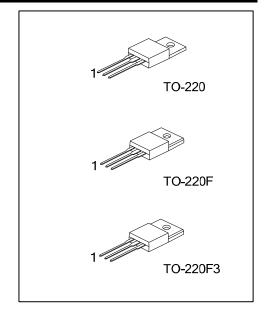
DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

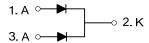
The UTC **TGBR30L45C** is a dual trench mos schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

■ FEATURES

- * Low forward voltage drop
- * High switching speed



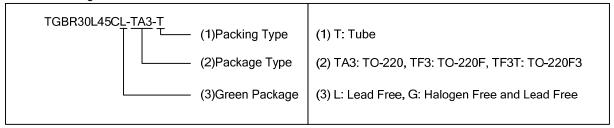
■ SYMBOL



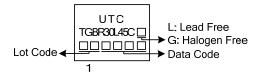
■ ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR30L45CL-TA3-T	TGBR30L45CG-TA3-T	TO-220	Α	K	Α	Tube	
TGBR30L45CL-TF3-T	TGBR30L45CG-TF3-T	TO-220F	Α	K	Α	Tube	
TGBR30L45CL-TF3T-T	TGBR30L45CG-TF3T-T	TO-220F3	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



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TGBR30L45C

■ 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}	45	V
Working Peak Reverse Voltage		V_{RWM}	45	V
Peak Repetitive Reverse Voltage		V_{RRM}	45	V
Average Rectified Output Current	Per Leg		15	Α
Per Device	Total	I _O	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	200	Α
Operating Junction Temperature		T_J	-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	
Junction to Case	TO-220	0	2	°C/M/	
	TO-220F/TO-220F3	θις	3.31	°C/W	

■ ELECTRICAL CHARACTERISTICS (PER LEG) (T_A =25°C unless otherwise specified.)

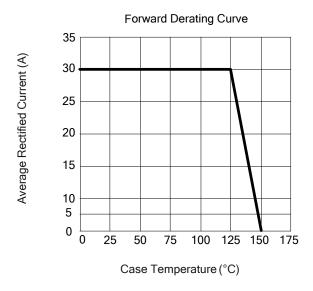
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I _R =0.50mA	45			V
Forward Voltage Drop	V _{EM}	I _F =15A, T _J =25°C			0.60	V
		I _F =15A, T _J =125°C			0.55	٧
Leakage Current (Note 1)	RM	V _R =45V, T _J =25°C			300	μΑ
		V _R =45V, T _J =125°C			100	mΑ

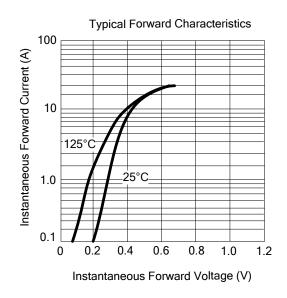
Notes: 1. Short duration pulse test used to minimize self-heating effect.

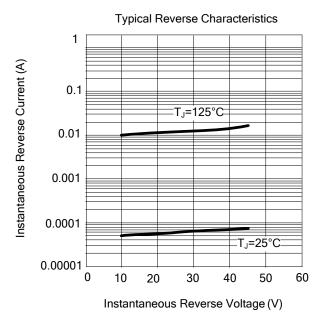
^{2.} Thermal resistance junction to case mounted on heatsink.

TGBR30L45C

■ TYPICAL CHARACTERISTICS







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