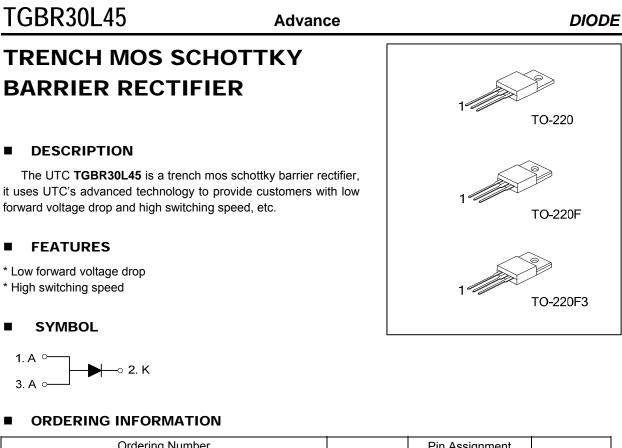
UNISONIC TECHNOLOGIES CO.,LTD UTC

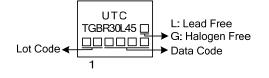


Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR30L45L-TA3-T	TGBR30L45G-TA3-T	TO-220	Α	К	А	Tube	
TGBR30L45L-TF3-T	TGBR30L45G-TF3-T	TO-220F	А	к	А	Tube	
TGBR30L45L-TF3T-T	TGBR30L45G-TF3T-T	TO-220F3	А	К	А	Tube	

Note: Pin Assignment: A: Anode K: Cathode

TGBR30L45L- <u>TA3-T</u>	(1)Packing Type	(1) T: Tube
	(2)Package Type (3)Green Package	(2) TA3: TO-220, TF3: TO-220F, TF3T: TO-220F3 (3) L: Lead Free, G: Halogen Free and 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, defate current by 20 %.						
PARAMETER	SYMBOL	RATINGS	UNIT			
DC Blocking Voltage	V_{RM}	45	V			
WorkingPeak Reverse Voltage	V _{RWM}	45	V			
Peak Repetitive Reverse Voltage	V _{RRM}	45	V			
Average Rectified Output Current T _C =140°C	Ι _Ο	30	А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	200	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
Junction to Ambient		θ _{JA}	62.5	°C/W
Junction to Case	TO-220	θ_{JC}	2	°C ///
	TO-220F/TO-220F3		3.31	°C/W

■ ELECTRICAL CHARACTERISTICS(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 =0.5mA	45			V
Forward Voltage Drop	VEM	I _F =30A, T _J =25°C			0.63	V
		I _F =30A, T _J =125°C			0.58	V
Leakage Current (Note 1)	DM	V _R =45V, T _J =25°C			300	μA
		V _R =45V, T _J =125°C			100	mA

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

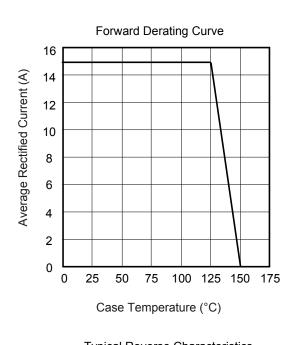
2. Thermal resistance junction to case mounted on heatsink.

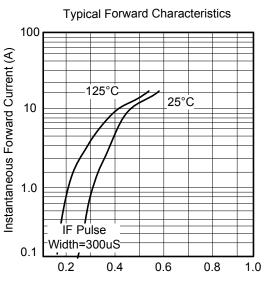


TGBR30L45

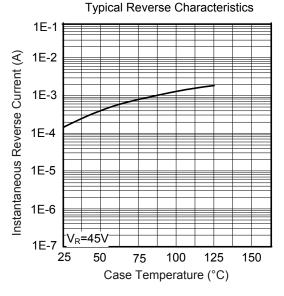
Advance

TYPICAL CHARACTERISTICS





Instantaneous Forward Voltage (V)



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

