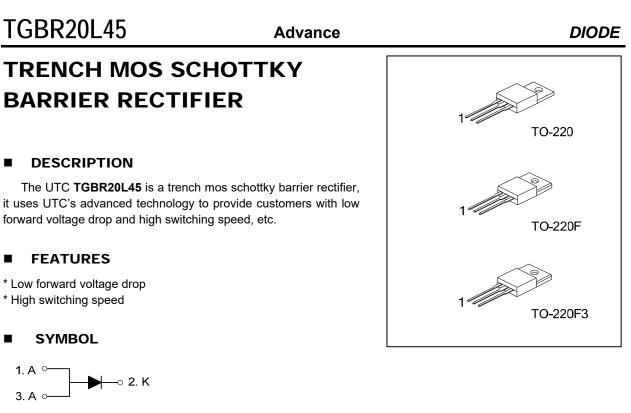


1. A °

3. A ↔

UNISONIC TECHNOLOGIES CO., LTD



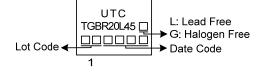
ORDERING INFORMATION

Ordering Number		Pin Assignment			De alvia a	
Halogen Free	Раскаде	1	2	3	Packing	
TGBR20L45G-TA3-T	TO-220	Α	К	А	Tube	
TGBR20L45G-TF3-T	TO-220F	Α	к	А	Tube	
TGBR20L45G-TF3T-T	TO-220F3	Α	К	А	Tube	
	Halogen Free TGBR20L45G-TA3-T TGBR20L45G-TF3-T	Halogen FreePackageTGBR20L45G-TA3-TTO-220TGBR20L45G-TF3-TTO-220F	Halogen FreePackageTGBR20L45G-TA3-TTO-220TGBR20L45G-TF3-TTO-220FA	Halogen FreePackage12TGBR20L45G-TA3-TTO-220AKTGBR20L45G-TF3-TTO-220FAK	Halogen FreePackage123TGBR20L45G-TA3-TTO-220AKATGBR20L45G-TF3-TTO-220FAKA	

Note: Pin Assignment: A: Anode K: Cathode

TGBR20L45G-TA3-T	(1)Packing Type	(1) T: Tube
	(2)Package Type	(2) TA3: TO-220, TF3: TO-220F, TF3T: TO-220F3
	(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, 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	lo	20	А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	250	А		
Operating Junction Temperature	ТJ	-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		θյΑ	62.5	°C/W
Junction to Case	TO-220	θјс	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	V _{FM}	I⊧=10A, TJ=25°C		0.47		V
		I _F =20A, TJ=25°C			0.59	V
		I⊧=20A, T」=125°C			0.54	V
Leakage Current (Note 1)	RM	V _R =45V, T _J =25°C			300	μA
		V _R =45V, T _J =125°C			40	mA

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

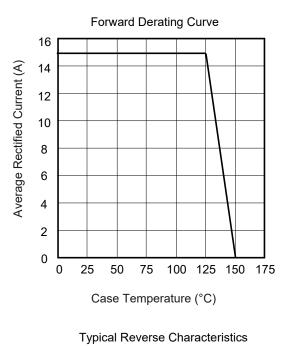
2. Thermal resistance junction to case mounted on heatsink.

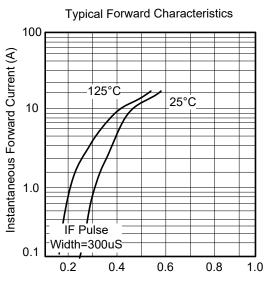


TGBR20L45

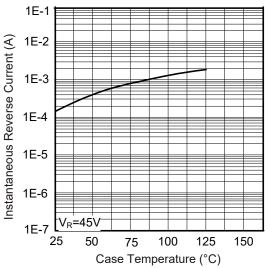
Advance

TYPICAL CHARACTERISTICS





Instantaneous Forward Voltage (V)



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