

TGBR10V200

Advance

DIODE

TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

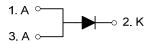
The UTC **TGBR10V200** is a trench mos schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high current capability, etc.

The UTC **TGBR10V200** suitable for free wheeling, high frequency inverters, polarity protection, and low voltage.

FEATURES

- * Very low forward voltage drop
- * High current capability
- * High surge capability
- * High efficiency

SYMBOL

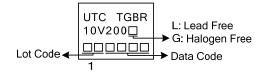


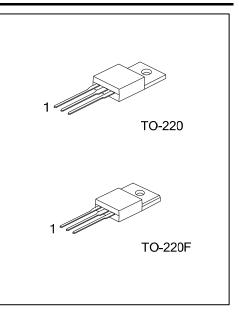
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Docking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR10V200L-TA3-T	TGBR10V200G-TA3-T	TO-220	А	К	А	Tube	
TGBR10V200L-TF3-T	TGBR10V200G-TF3-T	TO-220F	А	к	А	Tube	
Note: Pin Assignment: A: Anode K: Cathode							

TGBR10V200L-TA3-T	(1) T: Tube
(2)Package Type	(2) TA3: TO-220, TF3: TO-220F
(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING





Advance

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Single phase, half wave, 60Hz, resistive or inductive load.

FOI Capacitance load, derate current by 20%.			
PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage (Note 1)	V _{RM}	200	V
Working Peak Reverse Voltage	V _{RWM}	200	V
Peak Repetitive Reverse Voltage	V _{RRM}	200	V
Average Rectified Output Current T _c =125°C	lo	10	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	180	А
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 Ambient		θ _{JA}	62.5	°C/W	
Junction to Case	TO-220	0	2	°C/W	
	TO-220F	θις	3.31		

■ 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 =0.50mA	200			V
Forward Voltage Drop	VEM	I _F =10A, T _C =25°C			0.90	V
		I _F =10A, T _C =125°C			0.80	V
Peak Reverse Current at Rated DC	DM	V _R =200V, T _C =25°C			100	μA
Blocking Voltage (Note 1)		V _R =200V, T _C =125°C			10	mA

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

2. Thermal resistance junction to case mounted on heatsink.

3. Mounted on an FR4 PCB, single-sided copper, with 100cm² copper pad area.



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