MGBR20L200C

DUAL MOS GATED BARRIER RECTIFIER

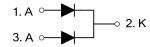
■ DESCRIPTION

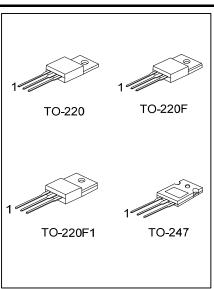
The UTC **MGBR20L200C** is a dual mos gated barrier rectifiers,it uses UTC's advanced technology to provide customers withlow forward voltage drop and high switching speed, etc.

■ FEATURES

- * Low forward voltage drop
- * High switching speed

■ SYMBOL

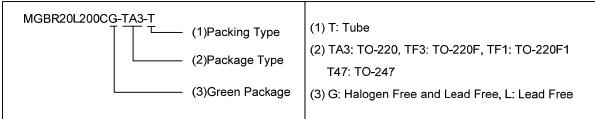




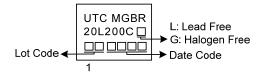
■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR20L200CL-TA3-T	MGBR20L200CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR20L200CL-TF3-T	MGBR20L200CG-TF3-T	TO-220F	Α	K	Α	Tube	
MGBR20L200CL-TF1-T	MGBR20L200CG-TF1-T	TO-220F1	Α	K	Α	Tube	
MGBR20L200CL-T47-T	MGBR20L200CG-T47-T	TO-247	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Common Cathode



■ MARKING



<u>www.unisonic.com.tw</u> 1 of 3

■ ABSOLUTE MAXIMUM RATINGS (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}	200	V
WorkingPeak Reverse Voltage		V_{RWM}	200	V
Peak Repetitive Reverse Voltage		V_{RRM}	200	V
Average Rectified Output Current	Per Leg		10	Α
(T _C =140°C)	Total	l _O	20	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	180	А
Repetitive Peak Avalanche Power (1µs, 25°C)		P _{ARM}	5000	W
Operating Junction Temperature		T_J	-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 RESISTANCES CHARACTERISTICS

PARAMETER		SYMBOL	RATINGS	UNIT
Junction to Ambient	TO-220/TO-220F TO-220F1	θ_{JA}	62.5	°C/W
	TO-247		40	°C/W
	TO-220		2	°C/W
Junction to Case	TO-220F/TO-220F1	θ_{JC}	3.31	°C/W
	TO-247		1.5	°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 =0.5mA	200			V
Instantaneous Forward Voltage Drop	I V FM	I _F =10A, T _J =25°C			0.86	V
		I _F =10A, T _J =125°C			0.78	V
Leakage Current (Note 1)	I _{RM}	V _R =200V, T _J =25°C			100	μΑ
		V _P =200V, T _I =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.

MGBR20L200C

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. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

