UTC UNISONIC TECHNOLOGIES CO.,LTD

MGBR20L200C

DUAL MOS GATED BARRIER RECTIFIER

DESCRIPTION

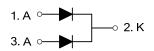
The UTC **MGBR20L200C** is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers withlow forward voltage drop and high switching speed, etc.

FEATURES

* Low forward voltage drop

* High switching speed

SYMBOL



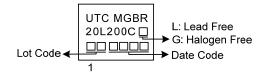
ORDERING INFORMATION

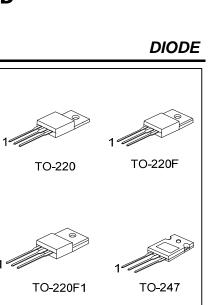
Ordering Number		Deekere	Pin Assignment			Dealises	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR20L200CL-TA3-T	MGBR20L200CG-TA3-T	TO-220	А	К	А	Tube	
MGBR20L200CL-TF3-T	MGBR20L200CG-TF3-T	TO-220F	А	К	А	Tube	
MGBR20L200CL-TF1-T	MGBR20L200CG-TF1-T	TO-220F1	А	К	А	Tube	
MGBR20L200CL-T47-T	MGBR20L200CG-T47-T	TO-247	А	К	А	Tube	

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

MGBR20L200CG-TA3-T (1)Packing Type (2)Package Type (3)Green Package	 (1) T: Tube (2) TA3: TO-220, TF3: TO-220F, TF1: TO-220F1 T47: TO-247 (3) G: Halogen Free and Lead Free, L: Lead Free

MARKING





Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load.derate current by 20%.

TOI capacitance load, derate current	by 2070.			
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	A
(T _C =140°C)	Total	I _O	20	А
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)		Parm	5000	W
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 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	θ _{JC}	2	°C/W	
Junction to Case	TO-220F/TO-220F1		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 _F =10A, T _J =25°C			0.86	V
		I _F =10A, T _J =125°C			0.78	V
Leakage Current (Note 1)	DM	V _R =200V, T _J =25°C			100	μA
		V _R =200V, T _J =125°C			10	mA

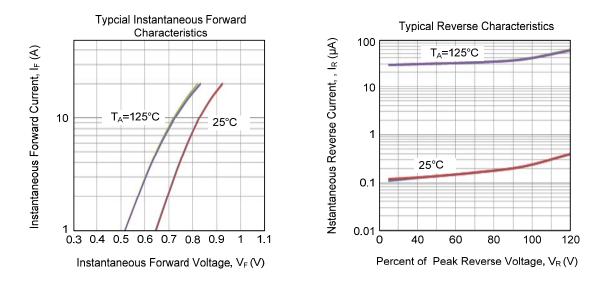
Notes: 1. Short duration pulse test used to minimize self-heating effect.

2. Thermal resistance junction to case mounted on heatsink.



MGBR20L200C

TYPICAL CHARACTERISTICS



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