

MGBR10L200C

DUAL MOS GATED BARRIER RECTIFIER

DESCRIPTION

The UTC **MGBR10L200C** is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

FEATURES

* Low forward voltage drop * High switching speed

SYMBOL

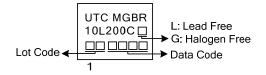
ORDERING INFORMATION

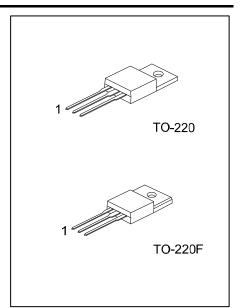
Ordering Number		Deelvere	Pin Assignment			Dealing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR10L200CL-TA3-T	MGBR10L200CG-TA3-T	TO-220	А	к	А	Tube	
MGBR10L200CL-TF3-T	MGBR10L200CG-TF3-T	TO-220F	А	к	А	Tube	

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

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

MARKING





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

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

Tor capacitance load, derate current by 20%.					
PARAMETER	SYMBOL	RATINGS	UNIT		
DC Blocking Voltage	V _{RM}	200	V		
Working Peak Reverse Voltage	V _{RWM}	200	V		
Peak Repetitive Reverse Voltage	V _{RRM}	200	V		
Average Rectified Output Current Per Device	r Leg	5	А		
To	tal Io	10	А		
Non-Repetitive Peak Forward Surge Current 8.3m	ns Single	110	٨		
Half Sine-Wave Superimposed on Rated Load	IFSM	110	A		
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	
Turniand Thermal Desistence	TO-220	0	2	°C/W	
Typical Thermal Resistance	TO-220F	θις	4	°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 =0.50mA	200			V
Forward Voltage Drop	V _{FM}	I _F =1A, T _J =25°C		0.69		V
		I _F =1A, T _J =125°C		0.54		V
		I _F =3A, T _J =25°C		0.77		V
		I _F =3A, T _J =125°C		0.63		V
		I _F =5A, T _J =25°C		0.82	0.9	V
		I _F =5A, T _J =125°C		0.69	0.74	V
Leakage Current (Note 1)	I _{RM}	V _R =200V, T _J =25°C		2	100	μA
		V _R =200V, T _J =125°C		0.5	25	mA

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

2. Thermal resistance junction to case mounted on heatsink.



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.

