UTC UNISONIC TECHNOLOGIES CO.,LTD

MGBR20L200C

DUAL MOS GATED BARRIER RECTIFIER

DESCRIPTION

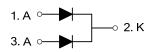
The UTC **MGBR20L200C** is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers withlow forward voltage drop and high switching speed, etc.

FEATURES

* Low forward voltage drop

* High switching speed

SYMBOL



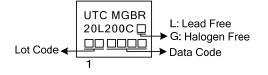
ORDERING INFORMATION

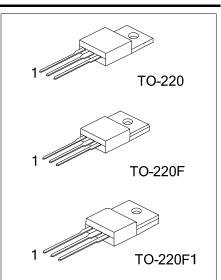
Ordering Number		Daakaga	Pin Assignment			Deaking
Lead Free	Halogen Free	Package	1	2	3	Packing
MGBR20L200CL-TA3-T	MGBR20L200CG-TA3-T	TO-220	А	к	А	Tube
MGBR20L200CL-TF3-T	MGBR20L200CG-TF3-T	TO-220F	А	к	А	Tube
MGBR20L200CL-TF1-T	MGBR20L200CG-TF1-T	TO-220F1	А	к	А	Tube

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

MGBR20L200CL- <u>TA</u> 3-R	1)Packing Type	(1) R: Tape Reel
(2	2)Package Type	(2) TA3: TO-220, TF3: TO-220F, TF1: TO-220F1
(3	3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING





DIODE

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	А		
(T _C =140°C)	Total	lo	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)		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		θ_{JA}	62.5	°C/W
lunction to Coop	TO-220	θ _{JC}	2	°C 14/
Junction to Case	TO-220F/TO-220F1		3.31	°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)	V _R =200V, T _J =25°C		100	μA		
	IRM	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.





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