

MGBR60V200C

Preliminary

DIODE

TO-3P

TO-220

TO-220F

DUAL MOS GATED BARRIER RECTIFIER

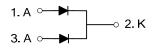
DESCRIPTION

The UTC **MGBR60V200C** 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

* Very low forward voltage drop* High switching speed

SYMBOL



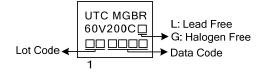
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Docking	
Lead Free	Halogen Free	Fackage	1	2	3	Packing	
MGBR60V200CL-TA3-T	MGBR60V200CG-TA3-T	TO-220	А	к	А	Tube	
MGBR60V200CL-TF3-T	MGBR60V200CG-TF3-T	TO-220F	А	к	А	Tube	
MGBR60V200CL-T3P-T	MGBR60V200CG-T3P-T	TO-3P	А	к	А	Tube	

Note: Pin Assignment: A: Anode K: Cathode

MGBR60V200CL-T	A3-T └──── (1)Packing Type	(1) T: Tube
	(2)Package Type	(2) TA3: TO-220, TF3: TO-220F, T3P: TO-3P
	(3)Green Package	(3) L: Lead Free, G: Halogen Free and 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%

TOT capacitance load, derate current by	20 /0.			
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	Per Leg	-	30	А
Device	Total	I _O	60	А
on-Repetitive Peak Forward Surge Current 8.3ms Single alf Sine-Wave Superimposed on Rated Load		I _{FSM}	250	А
Operating Junction Temperature		ΤJ	-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	
lunction to Ambient	TO-220/TO-220F	0	62.5	°C/W	
Junction to Ambient	TO-3P	θ _{JA}	21	C/W	
Junction to Case	TO-220	θյς	2		
	TO-220F		3.31	°C/W	
	TO-3P		1.55		

■ 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	VEM	I _F =30A, T _J =25°C			0.94	V
		I _F =30A, T _J =125°C			0.77	V
Lockers Current (Nets 4)		V _R =200V, T _J =25°C			100	μA
Leakage Current (Note 1)	I _{RM}	V _R =200V, T _J =125°C			20	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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