MGBR30V200C

DUAL MOS GATED BARRIER RECTIFIER

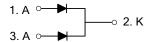
DESCRIPTION

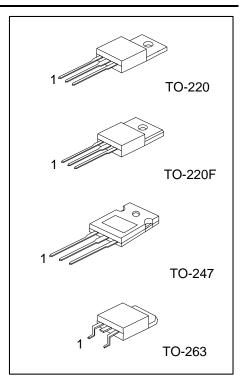
The UTC **MGBR30V200C** is a dual mos gated barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

■ FEATURES

- * Very low forward voltage drop
- * High switching speed

■ SYMBOL

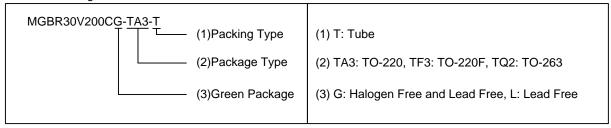




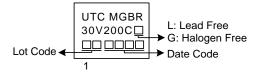
■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR30V200CL-TA3-T	MGBR30V200CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR30V200CL-TF3-T	MGBR30V200CG-TF3-T	TO-220F	Α	K	Α	Tube	
MGBR30V200CL-T47-T	MGBR30V200CG-T47-T	TO-247	Α	K	Α	Tube	
MGBR30V200CL-TQ2-T	MGBR30V200CG-TQ2-T	TO-263	Α	K	Α	Tube	
MGBR30V200CL-TQ2-R	MGBR30V200CG-TQ2-R	TO-263	Α	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



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MGBR30V200C

■ 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%.

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		15	Α
Device	Total	I _O	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	150	Α
Operating Junction Temperature		T_J	-65 ~ +150	Ô
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
Typical Thermal Resistance	TO-220 TO-263		2	°C/W
	TO-220F	$\theta_{ m JC}$	4	°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	$V_{(BR)R}$	I _R =0.50mA	200			V
Forward Voltage Drop	I V _{EM}	I _F =15A, T _J =25°C			0.87	V
		I _F =15A, T _J =125°C			0.82	V
Leakage Current	ЬМ	V _R =200V, T _J =25°C			5.0	μΑ
		V _R =200V, T _J =125°C			2.0	mA

Note: Pulse Test: Pulse width ≤ 300µs, Duty cycle ≤ 2%.

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