

MGBR30V200C

Advance

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



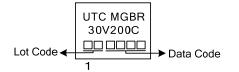
ORDERING INFORMATION

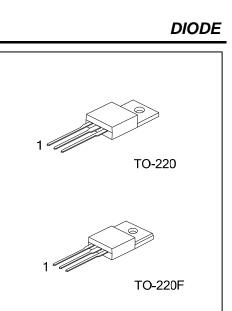
Ordering Number		Daakaga	Pin Assignment			Packing	
Lead Free	Halogen Free	Package	1	2	3	Facking	
MGBR30V200CL-TA3-T	MGBR30V200CG-TA3-T	TO-220	Α	К	А	Tube	
MGBR30V200CL-TF3-T	MGBR30V200CG-TF3-T	TO-220F	Α	К	А	Tube	

Note: Pin Assignment: A: Anode K: Cathode

MGBR30V200CL-TA3-T	
(1)Packing Ty	ype (1) T: Tube
(2)Package T	Type (2) TA3: TO-220, TF3: TO-220F
(3)Green Pac	ckage (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%

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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	А
Device	Total	lo	30	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	240	А
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	
Typical Thermal Resistance	TO-220	0	2	°C/W	
	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	V _{(BR)R}	I _R =0.50mA	200			V
Forward Voltage Drop		I _F =15A, TJ=25°C			0.87	V
		I _F =15A, T _J =125°C			0.82	V
Leakage Current	DM	V _R =200V, T _J =25°C			5.0	μA
		V _R =200V, T _J =125°C			2.0	mA

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



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