

MBR30200C

Preliminary

DIODE

30A, 200V SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC **MBR30200C** is a 30A schottky barrier rectifier, it uses UTC's advanced technology to provide the customers with high surge capability, high efficiency, high current capability, low power loss and low forward voltage drop, etc.

The UTC $\ensuremath{\text{MBR30200C}}$ is suitable for free wheeling and polarity protection, etc.

FEATURES

- * Low reverse current
- * High current capability
- * Low power loss
- * High efficiency
- * For use in low voltage, high frequency inverters

SYMBOL

ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MBR30200CL-TA3-T	MBR30200CG-TA3-T	TO-220	Α	К	Α	Tube	
MBR30200CL-TF1-T	MBR30200CG-TF1-T	TO-220F1	Α	К	А	Tube	
Note: Pin Assignment: A: Anode K: Cathode							

MBR30200CL-TA3-T		
	(1)Packing Type	(1) T: Tube
	(2)Package Type	(2) TA3: TO-220, TF1: TO-220F1
	(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING





ABSOLUTE MAXIMUM RATINGS

PARAMETER		SYMBOL	RATINGS	UNIT
Working Peak Reverse Voltage		V _{RWM}	200	V
Repetitive Peak Reverse Voltage		V _{RRM}	200	V
Maximum RMS Reverse Voltage		V _{R(RMS)}	140	V
DC Blocking Voltage		V _R	200	V
Average Rectified Output Current	Per Leg		15	А
Per Device	Total	l _o	30	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave		I _{FSM}	180	А
Operating Junction Temperature (Note 1)		TJ	-65~+150	°C
Storage Temperature (Note 1)		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

PARAMETER		SYMBOL	RATINGS	UN IT	
Junction to Ambient		θ _{JA}	62.5	°C/W	
lunction to Coop	TO-220	θ _{JC}	1.8	°C/W	
Junction to Case	TO-220F1		3.3	°C/W	

■ ELECTRICAL CHARACTERISTICS (Note 2) (T_A=25°C, unless otherwise noted.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{(BR)R}	I _R =0.50mA	200			V
Instantaneous Forward Voltage	V _F	I _F =15A, T _C =25°C			0.90	V
		I _F =15A, T _C =125°C			0.80	V
Instantaneous Deverse Current	I _R	V _R =200V, T _J =25°C			50	μA
Instantaneous Reverse Current		V _R =200V, T _J =125°C			10	mA

Notes: 1. The heat generated must be less than the thermal conductivity from Junction to Ambient: $P_D/T_J < 1/\theta_{JA}$. 2. Pulse Test: Pulse Width=300µs, Duty Cycle≤2.0%.



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