

MBR16200C

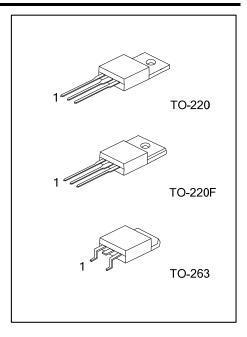
16A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

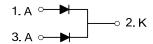
The UTC **MBR16200C** is a Schottky Barrier Rectifier with high efficiency, low power dissipation and high current capacity. It can be applied in high frequency, low voltage inverters, polarity protection and free wheeling applications.

■ FEATURES

- * High surge capability
- * High efficiency, low power dissipation, high current capability, low forward voltage drop
- * Guardring for overvoltage protection



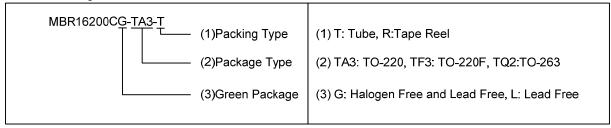
■ SYMBOL



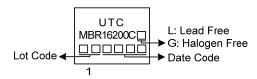
■ ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MBR16200CL-TA3-T	MBR16200CG-TA3-T TO-220 A K		K	Α	Tube		
MBR16200CL-TF3-T	MBR16200CG-TF3-T	TO-220F	Α	K	Α	Tube	
MBR16200CL-TQ2-T	MBR16200CG-TQ2-T	TO-263	Α	K	Α	Tube	
MBR16200CL-TQ2-R	MBR16200CG-TQ2-R	TO-263	Α	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



<u>www.unisonic.com.tw</u> 1 of 3

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MBR16200C

■ **ABSOLUTE MAXIMUM RATINGS** (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
RMS Reverse Voltage		$V_{R(RMS)}$	140	V
Average Rectified Output Current	Per Leg	_	8	Α
(T _C =105°C)	Total	I _O 16	Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	150	А
Operating Junction Temperature		T_J	+150	°C
Storage Temperature		T_{STG}	-55 ~ + 150	°C

Note: 1. 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	UNIT
Junction to Ambient		θ_{JA}	60	°C/W
Junction to Case	TO-220 TO-263	θЈС	2	°C/W
	TO-220F		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 (Note 1)	$V_{(BR)R}$	I _R =0.5mA	200			V
Forward Voltage Drop	V _{FM}	I _F =8A, T _J =25°C			0.9	V
		I _F =8A, T _J =125°C			0.8	V
Leakage Current (Note 1)	I IDM	V _R =200V, T _J =25°C			50	μΑ
		V _R =200V, T _J =125°C			20	mA
Type junction capacitance	C_{J}	V _R =4.0V, f=1MHz		103		pF

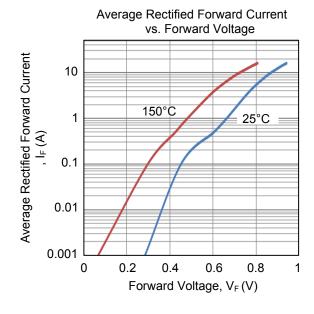
Notes: 1. Short duration pulse test used to minimize self-heating effect.

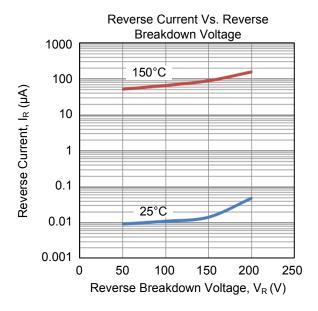
^{2.} Thermal resistance junction to case mounted on heatsink.

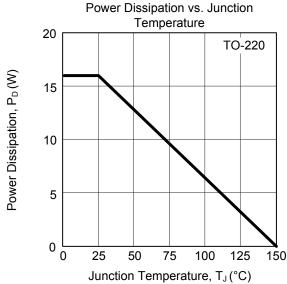
^{2.} Thermal resistance junction to case mounted on heatsink.

MBR16200C DIODE

■ TYPICAL CHARACTERISTICS







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