



## MBR20200C

Preliminary

DIODE

### SCHOTTKY BARRIER RECTIFIERS

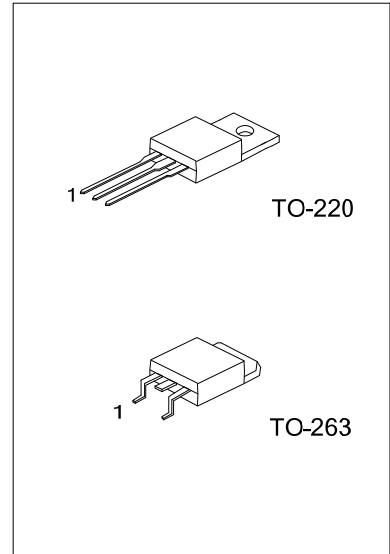
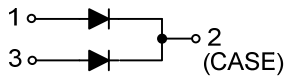
#### DESCRIPTION

The UTC **MBR20200C** is a Schottky Barrier Rectifier with high efficiency, low power dissipation and high current capacity. It can be applied in low voltage, high frequency inverters, polarity protection and free wheeling applications.

#### FEATURES

- \* High surge capability
- \* High efficiency, low power dissipation, high current capability, low forward voltage drop

#### SYMBOL



#### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
MBR20200CL-TA3-T	MBR20200CG-TA3-T	TO-220	A	K	A	Tube
MBR20200CL-TQ2-T	MBR20200CG-TQ2-T	TO-263	A	K	A	Tube
MBR20200CL-TQ2-R	MBR20200CG-TQ2-R	TO-263	A	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>MBR20200CL-TA3-T</p> <p>(1) Packing Type (2) Package Type (3) Lead Free</p>	<p>(1) T: Tube (2) TA3: TO-220, TQ2: TO-263 (3) G: Halogen Free, L: Lead Free</p>
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■ ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER			SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage			V <sub>RRM</sub>	200	V
RMS Voltage			V <sub>R(RMS)</sub>	140	V
DC Blocking Voltage			V <sub>R</sub>	200	V
Average Forward Rectified Output Current			I <sub>OUT</sub>	20	A
Forward Voltage	T <sub>C</sub> =25°C	I <sub>F</sub> =10A,	V <sub>F</sub>	0.99	V
		I <sub>F</sub> =20A,		1.23	V
DC Reverse Current	T <sub>C</sub> =25°C		I <sub>R</sub>	1.0	mA
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave			I <sub>FSM</sub>	150	A
Junction Capacitance (Note 2)			C <sub>J</sub>	320	pF
Operating Junction Temperature			T <sub>J</sub>	+150	°C
Storage Temperature			T <sub>STG</sub>	-65 ~ +175	°C

- Notes: 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.  
 2. Applied V<sub>R</sub> = 4.0V and f = 1.0MHz.

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