



MBR20150C

Preliminary

DIODE

SCHOTTKY BARRIER RECTIFIER

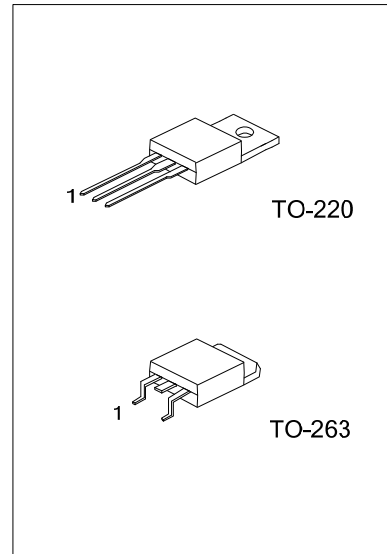
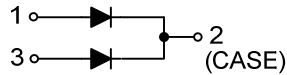
DESCRIPTION

The UTC **MBR20150C** is a Schottky Barrier Rectifier with high junction temperature capacity.

FEATURES

- * Good trade off between leakage current and forward voltage drop
- * High junction temperature capability
- * Low leakage current

SYMBOL



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
MBR20150CL-TA3-T	MBR20150CG-TA3-T	TO-220	A	K	A	Tube
MBR20150CL-TQ2-T	MBR20150CG-TQ2-T	TO-263	A	K	A	Tube
MBR20150CL-TQ2-R	MBR20150CG-TQ2-R	TO-263	A	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>MBR20150CL-TA3-T</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Lead Free</p>	<p>(1) T: Tube</p> <p>(2) TA3: TO-220</p> <p>(3) Halogen Free, L: Lead Free</p>
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■ **ABSOLUTE MAXIMUM RATING** ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage	V_{RRM}	150	V
RMS Voltage	$V_{R(RMS)}$	105	V
DC Blocking Voltage	V_R	150	V
Average Forward Rectified Output Current	I_{OUT}	20	A
Forward Voltage	V_F	$T_J=25^\circ\text{C}, I_F=10\text{A}$	0.92
		$T_J=125^\circ\text{C}, I_F=10\text{A}$	0.75
DC Reverse Current	I_R	$T_J=25^\circ\text{C}$	0.25
		$T_J=125^\circ\text{C}$	5
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	I_{FSM}	180	A
Junction Capacitance (Note 1)	C_J	320	pF
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-50 ~ +150	$^\circ\text{C}$

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 $V_R = 4.0\text{V}$ and $f = 1.0\text{MHz}$.

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