UTC UNISONIC TECHNOLOGIES CO., LTD

UMBR20150C DIODE

SCHOTTKY BARRIER **RECTIFIER**

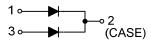
DESCRIPTION

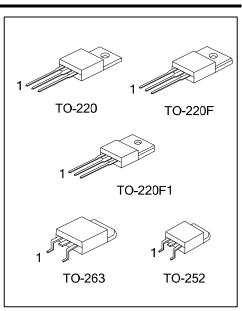
The UTC UMBR20150C is a Schottky Barrier Rectifier with high junction temperature capacity.

FEATURES

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

SYMBOL

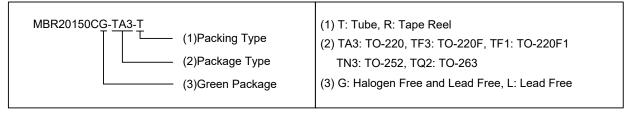




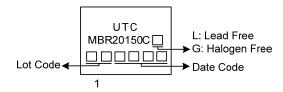
ORDERING INFORMATION

Ordering Number		Daakaaa	Pin Assignment			Da aldin ii	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MBR20150CL-TA3-T	MBR20150CG-TA3-T	TO-220	Α	K	Α	Tube	
MBR20150CL-TF3-T	MBR20150CG-TF3-T	TO-220F	Α	K	Α	Tube	
MBR20150CL-TF1-T	MBR20150CG-TF1-T	TO-220F1	Α	K	Α	Tube	
MBR20150CL-TN3-R	MBR20150CG-TN3-R	TO-252	Α	K	Α	Tape Reel	
MBR20150CL-TQ2-T	MBR20150CG-TQ2-T	TO-263	Α	K	Α	Tube	
MBR20150CL-TQ2-R	MBR20150CG-TQ2-R	TO-263	Α	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



www.unisonic.com.tw 1 of 3 UMBR20150C DIODE

■ **ABSOLUTE MAXIMUM RATING** (T_A=25°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 Femuera Rectified Output Current	Per Leg		10	Α	
Average Forward Rectified Output Current	Total	lo	20	Α	
Non-Repetitive Peak Forward Surge Current			150	Α	
8.3ms Single Half-Sine-Wave		I _{FSM}	150	Α	
Junction Capacitance (Note 2)		СЈ	320	pF	
Junction Temperature		T_J	-55 ~ +175	°C	
Storage Temperature		T_{STG}	-55 ~ +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.

■ THERMAL DATA

PARAMETER		SYMBOL	RATINGS	UNIT
Junction to Ambient		θ_{JA}	60	°C/W
	TO-220/TO-263	θις	2	°C/W
Junction to Case	<u> </u>		4	°C/W
	TO-252		3	°C/W

■ ELECTRICAL CHARACTERISTICS (NOTE 2)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage Drop	V _F	I _F =10A, T _C =25°C			0.92	V
		I _F =10A, T _C =125°C			0.8	V
		I _F =20A, T _C =25°C			1.05	V
		I _F =20A, T _C =125°C			1	٧
Instantaneous Bayane Comunit	l ln	Rated DC Voltage, T _C =25°C			0.20	Λ
Instantaneous Reverse Current		Rated DC Voltage, T _C =125°C			5	mA

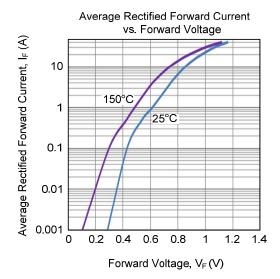
Notes: 1. 2.0µs Pulse Width, f = 1.0KHz.

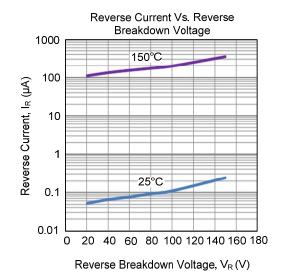
^{2.} Applied $V_R = 4.0V$ and f = 1.0MHz.

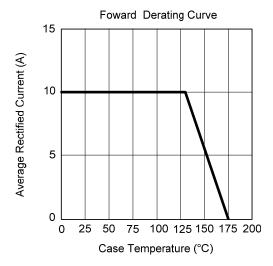
^{2.} Pulse Test: Pulse Width = $300\mu s$, Duty Cycle $\leq 2.0\%$.

UMBR20150C DIODE

■ TYPICAL CHARACTERISTICS







UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.