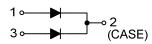


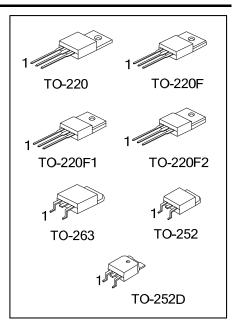
MBR10100C SCHOTTKY BARRIER RECTIFIER

FEATURES

- * 10 amps total (5 amps per diode leg)
- * Guard ring for transient protection
- * Low forward voltage drop
- * High surge capability
- * Low power loss/High efficiency

SYMBOL



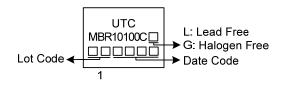


ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MBR10100CL-TA3-T	MBR10100CG-TA3-T	TO-220	Α	K	Α	Tube	
MBR10100CL-TF1-T	MBR10100CG-TF1-T	TO-220F1	Α	K	Α	Tube	
MBR10100CL-TF2-T	MBR10100CG-TF2-T	TO-220F2	Α	K	Α	Tube	
MBR10100CL-TF3-T	MBR10100CG-TF3-T	TO-220F	Α	K	Α	Tube	
MBR10100CL-TN3-R	MBR10100CG-TN3-R	TO-252	Α	K	Α	Tape Reel	
MBR10100CL-TND-R	MBR10100CG-TND-R	TO-252D	Α	K	Α	Tape Reel	
MBR10100CL-TQ2-T	MBR10100CG-TQ2-T	TO-263	Α	K	Α	Tube	
MBR10100CL-TQ2-R	MBR10100CG-TQ2-R	TO-263	Α	К	Α	Tape Reel	
Note: Pin Assignment: A: Anode K: Cathode							

MBR10100CG-TA3-T (1)Packing Type (2)Package Type (3)Green Package (3)Green Package

MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	100	V
Maximum non-repetitive Peak Reverse Voltage		V _{RM}	100	V
Maximum DC Blocking Voltage		V _R	100	V
Average Ferrierd Destified Output Overset	Per Leg	l _o	5	А
Average Forward Rectified Output Current	Total		10	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave		I _{FSM} 120		А
Junction Capacitance (Note 4)		CJ	350	pF
Operating Temperature		TJ	-55 ~ +150	°C
Storage Temperature		T _{STG}	-55 ~ +150	°C

■ THERMAL DATA

PARAMETER		SYMBOL	RATINGS	UNIT	
Junction to Ambient	TO-220/TO-220F TO-220F1/TO-220F2 TO-263	θ _{JA}	60	°C/W	
	TO-252/TO-252D		100		
Junction to Case	TO-220/TO-263		2	°C/W	
	TO-220F/TO-220F1 TO-220F2	θ _{JC}	4	°C/W	
	TO-252/TO-252D		2.5		

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage Drop (Note 3)	V _{FM}	I _F =5A, T _C =25°C			0.85	V
		I _F =5A, T _C =125°C			0.80	V
		I _F =10A, T _C =25°C			0.95	V
		I _F =10A, T _C =125°C			0.90	V
Instantanagua Davarag Current (Nata 2)	DM	Rated DC Voltage, T _C =25°C			100	μA
Instantaneous Reverse Current (Note 3)		Rated DC Voltage, T _C =125°C			15	mA

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. 2.0 μ s Pulse Width, f = 1.0 KHz.

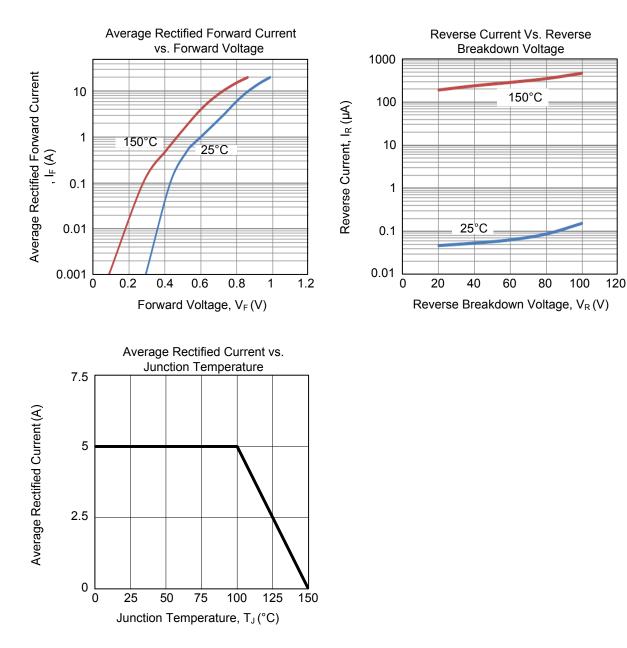
3. Pulse Test: Pulse Width=300µs, Duty Cycte ≤ 2.0 %

4. Applied V_R = 4.0V and f = 1.0 MHz.



MBR10100C

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.



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