MGBR20S100C

Preliminary

DIODE

DUAL MOS GATED BARRIER RECTIFIER

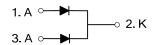
DESCRIPTION

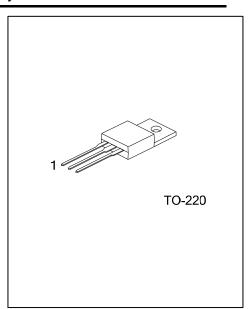
The UTC **MGBR20S100C** is a dua I mos gat ed barrier rectifiers, it uses UT C's a dvanced tech nology to provide cust omers with low forward voltage drop and high switching speed, etc.

■ FEATURES

- * Super low forward voltage drop
- * High switching speed

SYMBOL

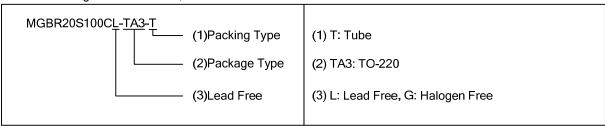




■ ORDERING INFORMATION

Ordering Number		Daokago	Pin Assignment			Packing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR20S100CL-TA3-T	MGBR20S100CG-TA3-T	TO-220	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode, K: Cathode



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

■ ABSOLUTE MAXIMUM RATINGS (PER LEG) (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} 100		V
Working Peak Reverse Voltage	V _{RWM} 100		V	
Peak Repetitive Reverse Voltage	V _{RRM} 100		V	
Average Restified Output Current Per Povice	Per Leg	_	10 A	
Average Rectified Output Current Per Device	Total 2	Io	0	Α
Non-Repetitive Peak Forward Surge Current 8 Half Sine-Wave Superimposed on Rated Load	•	I _{FSM} 200		Α
Operating Junction Temperature		T _J -65∼	+150	°C
Storage Temperature		T _{STG} -651	+150	°C

Note: 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}	62.5	°C/W
Junction to Case	θις	2	°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 =0.50mA 100				V
Farment Valtage Dage	V _{FM}	I _F =10A, T _J =25°C			0.70	V
Forward Voltage Drop		I _F =10A, T _J =125°C			0.65	V
I - also as Ossessat (Nata 4)	I DM	V _R =100V, T _J =25°C			200	μΑ
Leakage Current (Note 1)		V _R =100V, T _J =125°C			25	mΑ

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

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

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 useinlife 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. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.