MGBR10L250C DIODE

DUAL MOS GATED BARRIER RECTIFIER

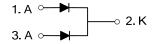
■ DESCRIPTION

The UTC **MGBR10L250C** is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

■ FEATURES

- * Low forward voltage drop
- * High switching speed

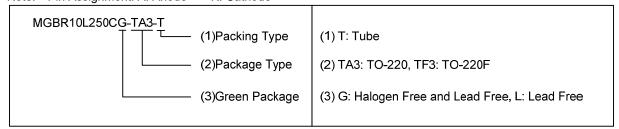




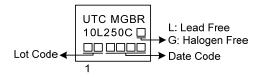
■ ORDERING INFORMATION

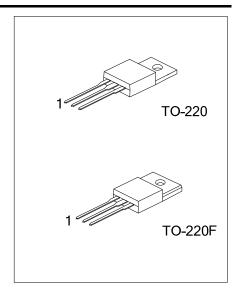
Ordering Number		Dookogo	Pin Assignment			Da akin a	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR10L250CL-TA3-T	MGBR10L250CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR10L250CL-TF3-T	MGBR10L250CG-TF3-T	TO-220F	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING





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MGBR10L250C DIODE

■ **ABSOLUTE MAXIMUM RATINGS** (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}	250	٧
Working Peak Reverse Voltage		V_{RWM}	250	V
Peak Repetitive Reverse Voltage		V_{RRM}	250	V
Average Rectified Output Current Per	Per Leg		5	Α
Device	Total	I _O	10	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	110	Α
Operating Junction Temperature		T_J	-65 ~ +150	Ô
Storage Temperature		T_{STG}	-65 ~ +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 CHARACTERISTICS (PER LEG)

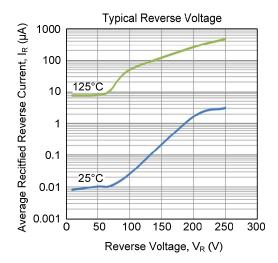
PARAMETER		SYMBOL	RATINGS	UNIT	
T : Th D : - t	TO-220	0	2	°C/W	
Typical Thermal Resistance	TO-220F	$\theta_{ extsf{JC}}$	4	°C/W	

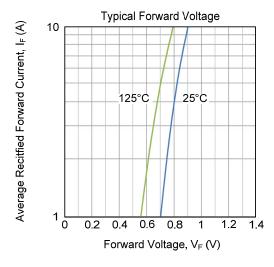
■ ELECTRICAL CHARACTERISTICS (PER LEG) (T_A =25°C unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	I _R =0.50mA	250			V
Instantaneous Forward Voltage	V EM	I _F =5.0A, T _J =25°C			0.92	V
		I _F =5.0A, T _J =125°C			0.78	V
Leakage Current	DM.	V _R =250V, T _J =25°C			100	μA
		V _R =250V, T _J =125°C			25	mA

Note: Pulse Test: Pulse width $\leq 300 \mu s$, Duty cycle $\leq 2\%$.

■ 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.