UNISONIC TECHNOLOGIES CO., LTD

MGBR10L100C **DIODE**

DUAL MOS GATED BARRIER RECTIFIER

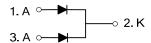
DESCRIPTION

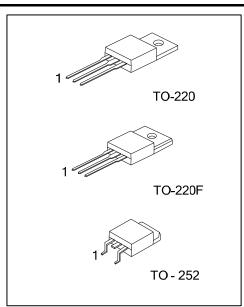
The UTC MGBR10L100C is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

FEATURES

- * Low forward voltage drop
- * High switching speed

SYMBOL

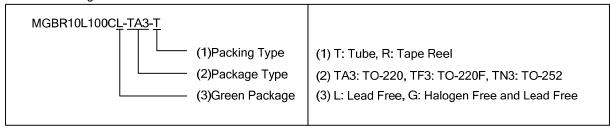




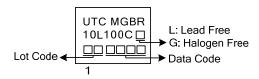
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing	
Lead Free	Halogen Free	Fackage	1	2	3	Packing	
MGBR10L100CL-TA3-T	MGBR10L100CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR10L100CL-TF3-T	MGBR10L100CG-TF3-T	TO-220F	Α	K	Α	Tube	
MGBR10L100CL-TN3-R	MGBR10L100CG-TN3-R	TO-252	Α	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



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■ 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 Rectified Output Current Per Device	Per Leg		5	Α
Average Rectilled Output Current Per Device	「otal	Io	10	Α
Non-Repetitive Peak Forward Surge Current 8.3 Half Sine-Wave Superimposed on Rated Load	Bms Single	I _{FSM}	80	Α
Operating Junction Temperature		T_J	-65 ~ +150	°C
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
	TO-220		2	°C/W
Typical Thermal Resistance	TO-220F	θЈС	4	°C/W
	TO-252		6	°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	100			V
Forward Valtage Drop	V_{FM}	I _F =5A, T _J =25°C			0.80	V
Forward Voltage Drop		I _F =5A, T _J =125°C			0.75	V
Lackage Current	I _{RM}	V _R =100V, T _J =25°C			100	μA
Leakage Current		V _R =100V, T _J =125°C			15	mΑ

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

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