MGBR20L100C

DUAL MOS GATED BARRIER RECTIFIER

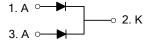
DESCRIPTION

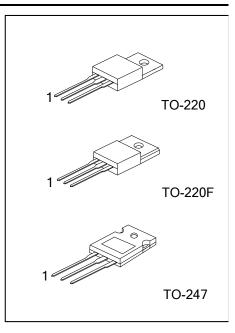
The UTC MGBR20L100C is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

■ FEATURES

- * Low forward voltage drop
- * High switching speed

■ SYMBOL

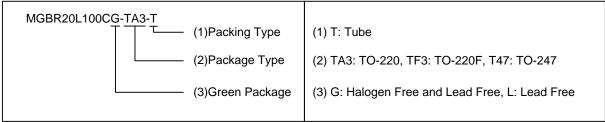




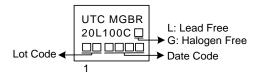
■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR20L100CL-TA3-T	MGBR20L100CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR20L100CL-TF3-T	MGBR20L100CG-TF3-T	TO-220F	A	K	Α	Tube	
MGBR20L100CL-T47-T	MGBR20L100CG-T47-T	TO-247	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



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MGBR20L100C

■ 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 Device	Per Leg		10	Α
Average Rectified Output Current Per Device	Total	I _O	20	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	150	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 DATA

PARAMETER		SYMBOL	RATINGS	UNIT
Junction to Ambient		θ_{JA}	62.5	°C/W
Junction to Case	TO-220		2	°C/W
	TO-220F	θ_{JC}	4	°C/W
	TO-247		1.5	°C/W

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

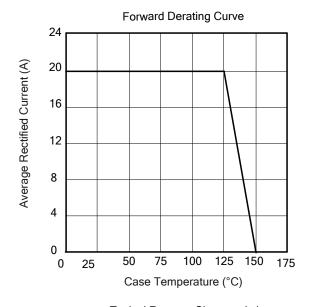
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I _R =0.50mA	100			V
Farment Valle as Dans	V _{FM}	I _F =10A, T _J =25°C			0.82	V
Forward Voltage Drop		I _F =10A, T _J =125°C			0.75	V
Lookana Current (Note 4)	DМ	V _R =100V, T _J =25°C			100	μΑ
Leakage Current (Note 1)		V _R =100V, T _J =125°C			10	mΑ

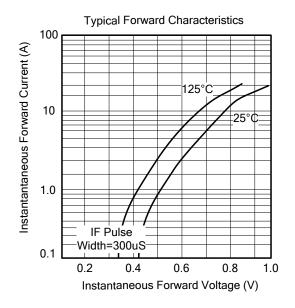
Notes: 1. Short duration pulse test used to minimize self-heating effect.

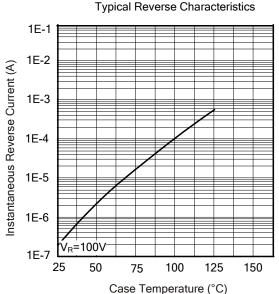
^{2.} Thermal resistance junction to case mounted on heatsink.

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■ TYPICAL CHARACTERISTICS







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