MGBR20S150C DIODE

DUAL MOS GATED BARRIER RECTIFIER

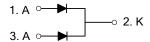
DESCRIPTION

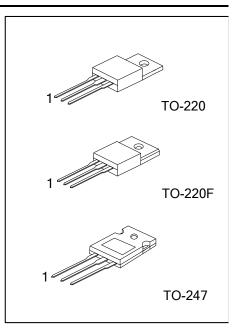
The UTC MGBR20S150C is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

■ FEATURES

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

■ SYMBOL

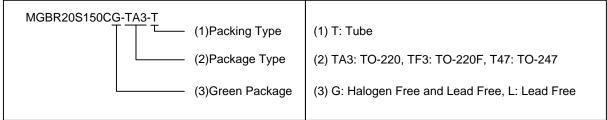




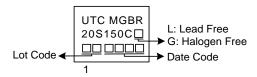
■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR20S150CL-TA3-T	MGBR20S150CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR20S150CL-TF3-T	MGBR20S150CG-TF3-T	TO-220F	Α	K	Α	Tube	
MGBR20S150CL-T47-T	MGBR20S150CG-T47-T	TO-247	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



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■ **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}	150	V
Working Peak Reverse Voltage		V_{RWM}	150	V
Peak Repetitive Reverse Voltage		V_{RRM}	150	V
Average Rectified Output Current Per	Per Leg		10	Α
Device	Total	Io	20	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	180	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

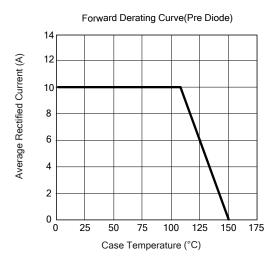
PARAMETER	SYMBOL	RATINGS	UNIT	
	TO-220		2	°C/W
Typical Thermal Resistance	TO-220F	θ _{JC}	4	°C/W
	TO-247		1.5	°C/W

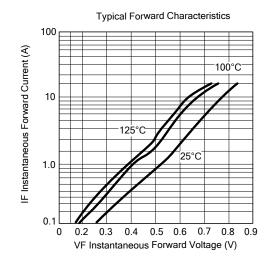
■ ELECTRICAL CHARACTERISTICS (PER LEG) (T_A =25°C unless otherwise specified.)

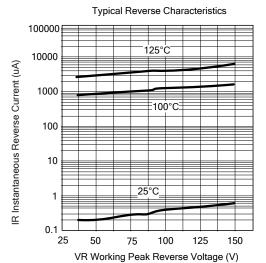
PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	I _R =0.50mA	150			V
Instantantantantantantantantantantantantant	V _{EM}	I _F =10A, T _J =25°C			0.80	V
Instantaneous Forward Voltage		I _F =10A, T _J =125°C			0.75	V
Landana Commant	I DM	V _R =150V, T _J =25°C			100	μA
Leakage Current		V _R =150V, T _J =125°C			30	mΑ

Note: Pulse Test: Pulse width ≤ 300µs, Duty cycle ≤ 2%.

■ TYPICAL CHARACTERISTICS







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