

MGBR20L150C

DUAL MOS GATED BARRIER RECTIFIER

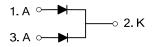
DESCRIPTION

The UTC **MGBR20L150C** 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



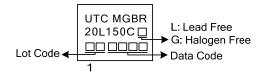
ORDERING INFORMATION

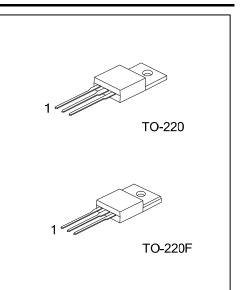
Ordering Number		Packago	Pin Assignment			Packing	
Lead Free	Halogen Free	Package	1	2	3	Facking	
MGBR20L150CL-TA3-T	MGBR20L150CG-TA3-T	TO-220	А	К	А	Tube	
MGBR20L150CL-TF3-T	MGBR20L150CG-TF3-T	TO-220F	А	К	А	Tube	

Note: Pin Assignment: A: Anode K: Cathode

MGBR20L150CL- <u>TA3-T</u>	acking Type	(1) T: Tube
(2)P	ackage Type	(2) TA3: TO-220, TF3: TO-220F
(3)G	ireen Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING





DIODE

■ 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}	150	V
Working Peak Reverse Voltage	V _{RWM}	150	V
Peak Repetitive Reverse Voltage	V _{RRM}	150	V
Average Rectified Output Current Per Device		10	А
Total	I _O	20	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	150	А
Operating Junction Temperature	TJ	-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	
lunction to Coop	TO-220	0	2	°C/M	
Junction to Case	TO-220F	θ _{JC} <u>2</u> 3.31	3.31	°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	150			V
	N	I _F =10A, T _J =25°C			0.90	V
Forward Voltage Drop	V _{FM}	I _F =10A, T _J =125°C			0.85	V
Leakage Current (Note 1)	DM	V _R =150V, T _J =25°C			50	μA
		V _R =150V, T _J =125°C			20	mA

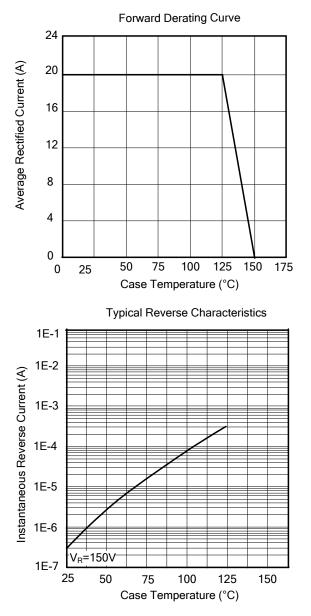
Notes: 1. Short duration pulse test used to minimize self-heating effect.

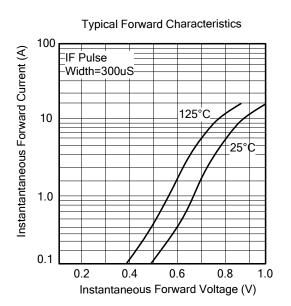
2. Thermal resistance junction to case mounted on heatsink.



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TYPICAL CHARACTERISTICS





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