MGBR30L60C

DUAL MOS GATED BARRIER RECTIFIER

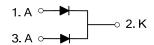
■ DESCRIPTION

The UTC **MGBR30L60C** is a dual mos g ated barrier rectifiers, it uses UT C's advanc ed tech nology to pro vide custom ers with lo w forward voltage drop and high switching speed, etc.

■ FEATURES

- * Low forward voltage drop
- * High switching speed

■ SYMBOL

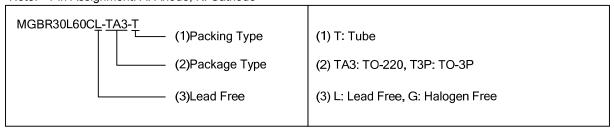


1 TO-3P

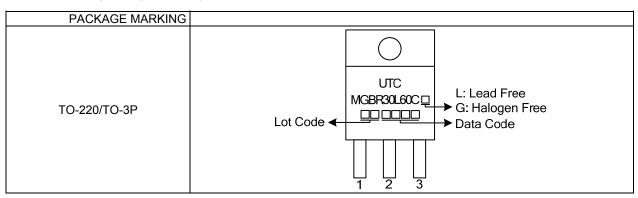
■ ORDERING INFORMATION

Ordering Number		Dackago	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR30L60CL-TA3-T	MGBR30L60CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR30L60CL-T3P-T	MGBR30L60CG-T3P-T	TO-3P	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode, K: Cathode



MARKING INFORMATION



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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} 60		V	
Working Peak Reverse Voltage	V _{RWM} 60		V	
Peak Repetitive Reverse Voltage	V _{RRM} 60		V	
Average Rectified Output Current Per Device	Per Leg	l _o	15 A	
	Total 3		0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM} 200		А
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	
Landing to Australia	TO-220	0	62.5	°C/W	
Junction to Ambient	TO-3P	TO-3P θ_{JA}	21		
lumation to Occa-	TO-220	0	2	°C/W	
Junction to Case	TO-3P	$\theta_{ m JC}$	1.55		

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

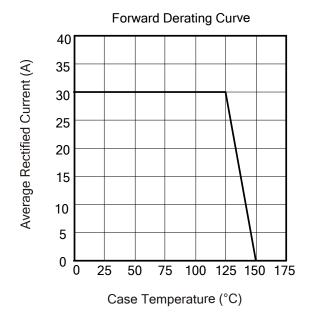
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I _R =0.50mA 60				V
Forward Voltage Dress	I V⊏M	I _F =15A, T _J =25°C			0.65	V
Forward Voltage Drop		I _F =15A, T _J =125°C			0.60	V
Lookaga Current (Note 1)	I DM	V _R =60V, T _J =25°C			300	μΑ
Leakage Current (Note 1)		V _R =60V, T _J =125°C			100	mA

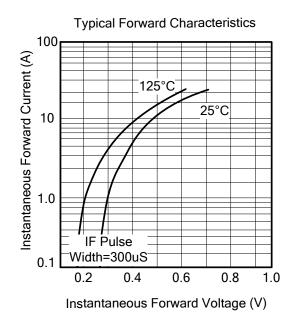
Notes: 1. Short duration pulse test used to minimize self-heating effect.

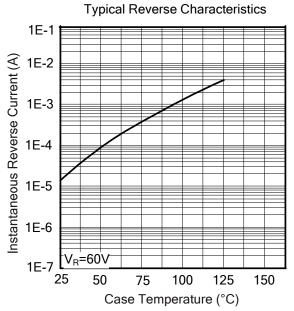
^{2.} Thermal resistance junction to case mounted on heatsink.

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■ TYPICAL CHARACTERISTICS







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