

UNISONIC TECHNOLOGIES CO., LTD

MGBR20V60C

Preliminary

DIODE

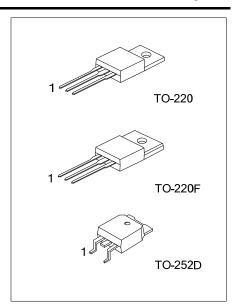
DUAL MOS GATED BARRIER RECTIFIERS

DESCRIPTION

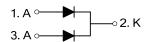
The UTC **MGBR20V60C** is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers with high current capability, low forward voltage and high switching speed, etc.

■ FEATURES

- * Very low forward voltage
- * High switching speed
- * High current capability



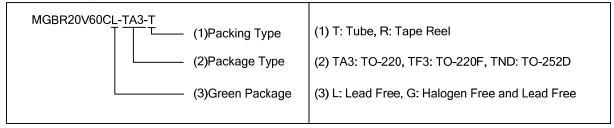
■ SYMBOL



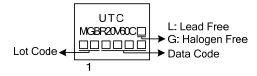
■ ORDERING INFORMATION

	Ordering Number		Dookogo	Pin Assignment			Dooking	
	Lead Free	Halogen Free	Package	1	2	3	Packing	
	MGBR20V60CL-TA3-T	MGBR20V60CG-TA3-T	TO-220	Α	K	Α	Tube	
	MGBR20V60CL-TF3-T	MGBR20V60CG-TF3-T	TO-220F	Α	K	Α	Tube	
ſ	MGBR20V60CL-TND-R	MGBR20V60CG-TND-R	TO-252D	Α	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



MARKING



<u>www.unisonic.com.tw</u> 1 of 3

■ **ABSOLUTE MAXIMUM RATINGS** (T_A=25°C unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
OC Blocking Voltage		V_{RM}	60	V
Working Peak Reverse Voltage		V_{RWM}	60	V
Peak Repetitive Reverse Voltage		V_{RRM}	60	V
Average Destified Forward Current	Per Leg		10	Α
Average Rectified Forward Current	Total	Io	20	Α
Peak Forward Surge Current		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	
lunation to Ambient	TO-220/TO-220F	0	62.5	°C/W	
Junction to Ambient	TO-252D	θ_{JA}	2.5		
lunction to Coop	TO-220F	θЈС	3.31	°C/W	
Junction to Case	TO-220/TO-252D		2	C/VV	

■ **ELECTRICAL CHARACTERISTICS** (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 =0.60mA	60			V
	V _{FM}	I _F =5A, T _J =25°C		0.44		V
nstantaneous Forward Voltage		I _F =5A, T _J =125°C		0.39		V
		I _F =10A, T _J =25°C			0.59	V
		I _F =10A, T _J =125°C			0.54	V
stantaneous Reverse Current (Note 1)	I _{RM}	V _{RM} =60V, T _J =25°C			500	μΑ
		V _{RM} =60V, 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.

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

