UNISONIC TECHNOLOGIES CO., LTD

MGBR20L300C

DUAL MOS GATED BARRIER RECTIFIER

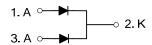
DESCRIPTION

The UTC MGBR20L300C 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

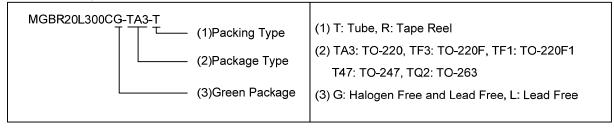




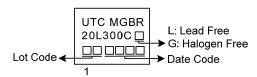
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing	
Lead Free	Halogen Free	Fackage	1	2	3	i acking	
MGBR20L300CL-TA3-T	MGBR20L300CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR20L300CL-TF1-T	MGBR20L300CG-TF1-T	TO-220F1	Α	K	Α	Tube	
MGBR20L300CL-TF3-T	MGBR20L300CG-TF3-T	TO-220F	Α	K	Α	Tube	
MGBR20L300CL-T47-T	MGBR20L300CG-T47-T	TO-247	Α	K	Α	Tube	
MGBR20L300CL-TQ2-T	MGBR20L300CG-TQ2-T	TO-263	Α	K	Α	Tube	
MGBR20L300CL-TQ2-R	MGBR20L300CG-TQ2-R	TO-263	Α	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



TO-220F

TO-220F1

TO-220F1

TO-220F1

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

MGBR20L300C 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}	300	V
Working Peak Reverse Voltage		V_{RWM}	300	V
Peak Repetitive Reverse Voltage		V_{RRM}	300	V
Average Rectified Output Current Per Device	Per Leg		10	Α
	Total	I _O	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		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	TO-220/TO-220F TO-220F1	θ_{JA}	62.5	°C/W
	TO-247		40	°C/W
Junction to Case	TO-220	θ _{JC}	2	°C/W
	TO-220F TO-220F1		4	°C/W
	TO-263		2	°C/W
	TO-247		1.5	°C/W

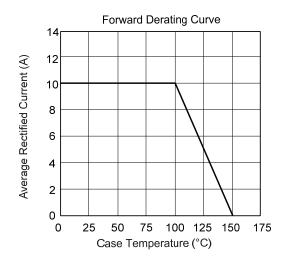
■ **ELECTRICAL CHARACTERISTICS (PER LEG)** (T_A =25°C unless otherwise specified.)

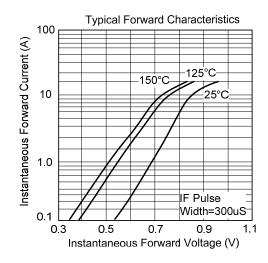
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	I _R =0.50mA	300			V
Forward Voltage Drop	I V-M	I _F =10A, T _J =25°C			0.92	٧
		I _F =10A, T _J =125°C			0.80	V
Leakage Current (Note 1)	I DM	V _R =300V, T _J =25°C			100	μA
		V _R =300V, T _J =125°C			10	mA

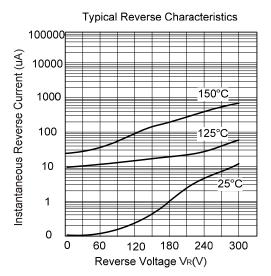
Notes: 1. Short duration pulse test used to minimize self-heating effect.

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

■ TYPICAL CHARACTERISTICS







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. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Unisonic manufacturer:

Other Similar products are found below:

CUS06(TE85L,Q,M) MA4E2039 D1FH3-5063 MBR0530L-TP MBR10100CT-BP MBR30H100MFST1G MMBD301M3T5G PMAD1103-LF PMAD1108-LF RB160M-50TR RB520S-30 RB551V-30 DD350N18K DZ435N40K DZ600N16K BAS16E6433HTMA1 BAS 3010S-02LRH E6327 BAT 54-02LRH E6327 IDL02G65C5XUMA1 NSR05F40QNXT5G NSVR05F40NXT5G JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SBAT54CWT1G SBM30-03-TR-E SBS818-TL-E SK32A-LTP SK33A-TP SK34A-TP SK34B-TP SMD1200PL-TP ACDBN160-HF SS3003CH-TL-E STPS30S45CW PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MBR1240MFST1G MBRB30H30CT-1G BAS28E6433HTMA1 BAS 70-02L E6327 HSB123JTR-E JANTX1N5712-1 VS-STPS40L45CW-N3 DD350N12K SB007-03C-TB-E SB10015M-TL-E SB1003M3-TL-E SK110-LTP