

UNISONIC TECHNOLOGIES CO., LTD

MGBR6L60C

Preliminary

DIODE

DUAL MOS GATED BARRIER RECTIFIER

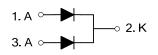
DESCRIPTION

The UTC **MGBR6L60C** 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



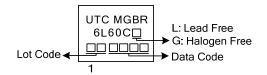
ORDERING INFORMATION

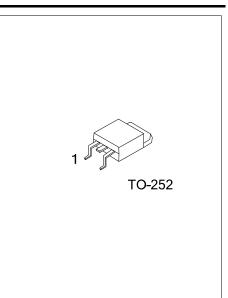
Ordering Number		Daakaga	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR6L60CL-TN3-R	MGBR6L60CG-TN3-R	TO-252	А	К	Α	Tape Reel	
Noto: Din Appignment: A: Appdo K: Cathodo							

Note: Pin Assignment: A: Anode K: Cathode

MGBR6L60CL-TN3-R	—— (1)Packing Type	(1) R: Tape Reel
	—— (2)Package Type	(2) TN3: TO-252
	—— (3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING





Preliminary

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

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, defate 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		
verage Rectified Forward Current	Per Leg	Ι _Ο	3	А		
(Rated VR-20KHz Square Wave) – 50% duty cycle	Total		6	А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	80	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 CHARACTERISTICS (PER LEG)

PARAMETER	SYMBOL	RATINGS	UNIT	
Typical Thermal Resistance	θ _{JC}	6	°C/W	

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

PARAMETER	SYMBOL	MBOL TEST CONDITIONS		TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{(BR)R}	I _R =0.60mA	60			V
Forward Voltage Drop		I _F =3.0A, T _J =25°C			0.67	V
		I _F =3.0A, T _J =125°C			0.62	V
Leakage Current	RM	V _R =60V, T _J =25°C			100	μA
		V _R =60V, T _J =125°C			15	mA

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



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