



MGBR20S60C

Preliminary

DIODE

DUAL MOS GATED BARRIER RECTIFIERS

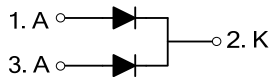
DESCRIPTION

The UTC **MGBR20S60C** 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

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

SYMBOL



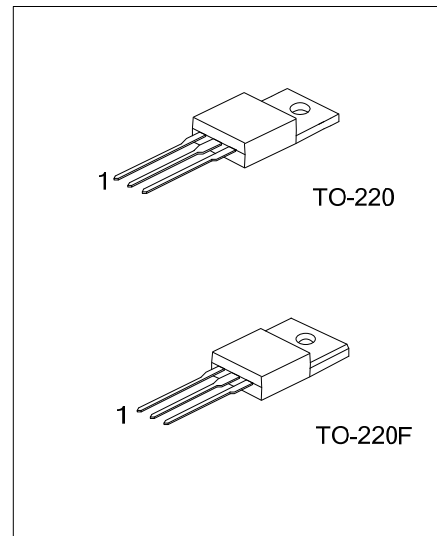
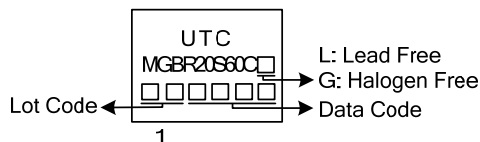
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
MGBR20S60CL-TA3-T	MGBR20S60CG-TA3-T	TO-220	A	K	A	Tube
MGBR20S60CL-TF3-T	MGBR20S60CG-TF3-T	TO-220F	A	K	A	Tube

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

<p>MGBR20S60CL-TA3-T</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) T: Tube, R: Tape Reel (2) TA3: TO-220, TF3: TO-220F (3) L: Lead Free, G: Halogen Free and Lead Free
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MARKING



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

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 Forward Current	Per Leg	I _O	10	A
	Total		20	A
Peak Forward Surge Current		I _{FSM}	130	A
Operating Junction Temperature		T _J	-40 ~ +150	°C
Storage Temperature		T _{STG}	-40 ~ +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	TO-220	θ _{JC}	2	°C/W
	TO-220F		4	°C/W

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
Reverse Breakdown Voltage	V _{(BR)R}	I _R =0.60mA	60			V	
Instantaneous Forward Voltage	V _{FM}	I _F =5A, T _J =25°C		0.42		V	
		I _F =5A, T _J =125°C		0.38		V	
		I _F =10A, T _J =25°C			0.54		V
		I _F =10A, T _J =125°C			0.49		V
Leakage Current	I _{RM}	V _{RM} =60V, T _J =25°C			500	μA	
		V _{RM} =60V, T _J =125°C			50	mA	

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

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