



TGBR20L60C

Preliminary

DIODE

DUAL TRENCH MOS SCHOTTKY

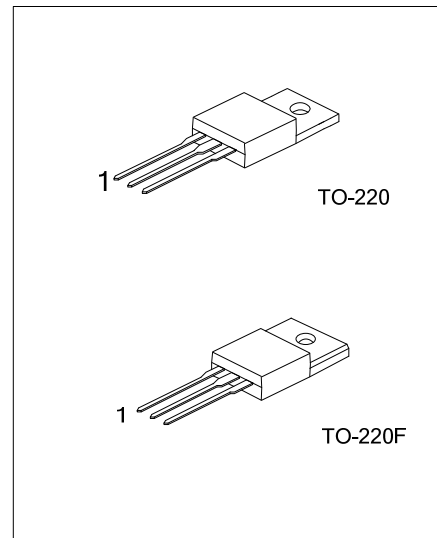
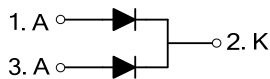
DESCRIPTION

The UTC **TGBR20L60C** is a dual trench mos schottky, it uses UTC's advanced technology to provide customers with high current capability, low forward voltage and high switching speed, etc.

FEATURES

- * Low forward voltage
- * High switching speed
- * High current capability

SYMBOL



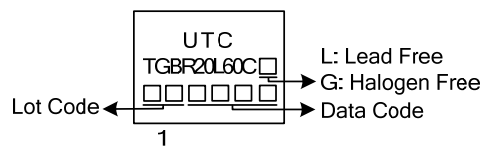
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
TGBR20L60CL-TA3-T	TGBR20L60CG-TA3-T	TO-220	A	K	A	Tube
TGBR20L60CL-TF3-T	TGBR20L60CG-TF3-T	TO-220F	A	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

<p>TGBR20L60CL-TA3-T</p> <p>(1) Packing Type (2) Package Type (3) Green Package</p>	<p>(1) T: Tube (2) TA3: TO-220, TF3: TO-220F (3) L: Lead Free, G: Halogen Free and Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS (PER LEG) ($T_A=25^\circ\text{C}$ 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 Forward Current	Per Leg	10	A
	Total	20	A
Peak Forward Surge Current	I_{FSM}	150	A
Operating Junction Temperature	T_J	-65~+150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-65~+150	$^\circ\text{C}$

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
Junction to Ambient	θ_{JA}	62.5	$^\circ\text{C}/\text{W}$
Junction to Case	TO-220	2	$^\circ\text{C}/\text{W}$
	TO-220F	3.31	

■ ELECTRICAL CHARACTERISTICS (PER LEG) ($T_A=25^\circ\text{C}$ unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	$I_R=0.50\text{mA}$	60			V
Instantaneous Forward Voltage	V_{FM}	$I_F=10\text{A}, T_J=25^\circ\text{C}$			0.64	V
		$I_F=10\text{A}, T_J=125^\circ\text{C}$			0.59	V
Instantaneous Reverse Current (Note 1)	I_{RM}	$V_{RM}=60\text{V}, T_J=25^\circ\text{C}$			300	μA
		$V_{RM}=60\text{V}, T_J=125^\circ\text{C}$			20	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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