

UTC UNISONIC TECHNOLOGIES CO., LTD

TGBR20V60C

Preliminary

DIODE

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC TGBR20V60C is a dual trench mos schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

FEATURES

* Very low forward voltage drop

* High switching speed

SYMBOL

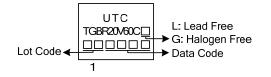
ORDERING INFORMATION

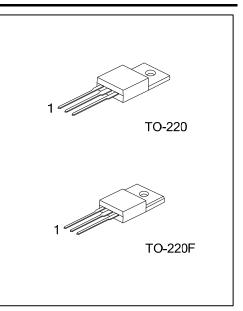
Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR20V60CL-TA3-T	TGBR20V60CG-TA3-T	TO-220	А	К	А	Tube	
TGBR20V60CL-TF3-T	TGBR20V60CG-TF3-T	TO-220F	Α	К	А	Tube	

Note: Pin Assignment: A: Anode K: Cathode

TGBR20V60CL-TA3-T	(1)Packing Type	(1) T: Tube
	(2)Package Type	(2) TA3: TO-220, TF3: TO-220F
	(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.

20 /0.			
PARAMETER		RATINGS	UNIT
DC Blocking Voltage		60	V
Working Peak Reverse Voltage		60	V
Peak Repetitive Reverse Voltage		60	V
Per Leg		10	А
Total	10	20	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		180	А
Operating Junction Temperature		-65 ~ +150	°C
Storage Temperature		-65 ~ +150	°C
	Total rrent 8.3ms	SYMBOL V _{RM} V _{RWM} V _{RRM} V _{RRM} Indext Control Total Indext Control Indext Control	$\begin{tabular}{ c c c c c } \hline & SYMBOL & RATINGS \\ \hline & V_{RM} & 60 \\ \hline & V_{RWM} & 60 \\ \hline & V_{RWM} & 60 \\ \hline & V_{RRM} & 60 \\ \hline & V_{RRM} & 60 \\ \hline & & 10 \\ \hline & & & 10 \\ \hline & & & 10 \\ \hline & & & & 10 \\ \hline & & & & 10 \\ \hline & & & & & 10 \\ \hline & & & & & & 10 \\ \hline & & & & & & & 10 \\ \hline & & & & & & & & \\ \hline & & & & & & & &$

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	°C/W	
lunction to Coop	TO-220	0	2	°C1M	
Junction to Case	TO-220F	θ _{JC}	3.31	°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	60			V
Forward Voltage Drop		I _F =10A, TJ=25°C			0.63	V
		I _F =10A, T _J =125°C			0.58	V
Leakage Current (Note 1)	RM	V _R =60V, T _J =25°C			500	μA
		V _R =60V, T _J =125°C			100	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.

