

UTC UNISONIC TECHNOLOGIES CO., LTD

TGBR40L60C

Preliminary

DIODE

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC TGBR40L60C 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

* Low forward voltage drop

* High switching speed

SYMBOL

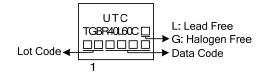
ORDERING INFORMATION

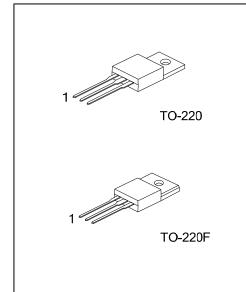
Ordering Number		Daakaga	Pin Assignment			Docking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR40L60CL-TA3-T	TGBR40L60CG-TA3-T	TO-220	А	К	А	Tube	
TGBR40L60CL-TF3-T	TGBR40L60CG-TF3-T	TO-220F	А	К	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode

TGBR40L60CL- <u>TA3-</u>	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		20	А
Total	10	40	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		200	А
Operating Junction Temperature		-65 ~ +150	°C
Storage Temperature		-65 ~ +150	°C
	Per Leg Total rrent 8.3ms	SYMBOL V _{RM} V _{RWM} V _{RRM} V _{RRM} Indext Indext Total Indext Indext	$\begin{tabular}{ c c c c c c c } \hline V_{RM} & 60 \\ \hline V_{RWM} & 60 \\ \hline V_{RRM} & 10

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		TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	I _R =0.5mA	60			V
Forward Voltage Drop		I _F =20A, TJ=25°C			0.70	V
		I _F =20A, T _J =125°C			0.65	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.



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