

UNISONIC TECHNOLOGIES CO., LTD

TGBR60L100C

Preliminary

DUAL TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC **TGBR60L100C** 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

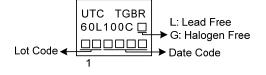
SYMBOL

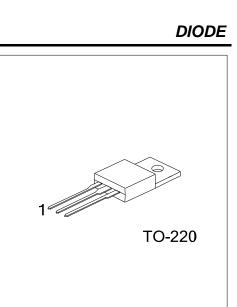
ORDERING INFORMATION

Ordering Number		Dealiana	Pin Assignment			Deeking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR60L100CL-TA3-T	TGBR60L100CG-TA3-T	TO-220	А	К	А	Tube	
Note: Pin Assignment: A: Anode K: Cathode							

TGBR60L100CG-TA3-T	(1)Packing Type	(1) T: Tube
	(2)Package Type	(2) TA3: TO-220
	(3)Green Package	(3) G: Halogen Free and Lead Free, L: 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, derate current by	2070.			
PARAMETER		SYMBOL	RATINGS	UNIT
DC Blocking Voltage		V _{RM}	100	V
Working Peak Reverse Voltage		V _{RWM}	100	V
Peak Repetitive Reverse Voltage		V _{RRM}	100	V
Average Rectified Output Current	Per Leg		30	А
(T _c =140°C)	Total	Io	60	А
	Repetitive Peak Forward Surge Current 8.3ms le Half Sine-Wave Superimposed on Rated Load		200	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}	2	°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 =0.5mA	100			V
		I _F =30A, T _J =25°C			0.75	V
Forward Voltage Drop	V _{FM}	I _F =30A, T _J =125°C			0.7	V
Leakage Current		V _R =100V, T _J =25°C			100	μA
	IRM	V _R =100V, T _J =125°C			10	mA

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



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