

UNISONIC TECHNOLOGIES CO., LTD

TGBR5V60

Preliminary

DIODE

TRENCH MOS SCHOTTKY BARRIER RECTIFIER

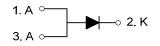
DESCRIPTION

The UTC **TGBR5V60** is a 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



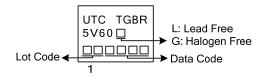
ORDERING INFORMATION

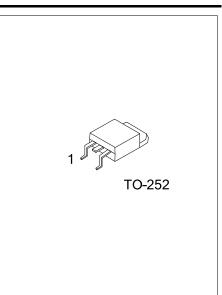
Ordering Number		Daakaga	Pin Assignment			Decking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR5V60L-TN3-R TGBR5V60G-TN3-R		TO-252	Α	К	Α	Tape Reel	

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

TGBR5V60L-TN3-R	(1) R: Tape Reel
(2)Package Type	(2) TN3: TO-252
(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING





■ 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 20%.				
PARAMETER	SYMBOL	RATINGS	UNIT	
DC Blocking Voltage	V _{RM}	60	V	
Working Peak Reverse Voltage	V _{RWM}	60	V	
Repetitive Peak Reverse Voltage	V _{RRM}	60	V	
Average Rectified Output Current	Ιo	5	А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	100	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}	6	°C/W	

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

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{(BR)R}	I _R =0.5mA	60			V
Forward Voltage Drop	V _{FM}	I _F =5A, T _J =25°C			0.58	V
		I _F =5A, T _J =125°C			0.53	V
Leakage Current	I _{RM}	V _R =60V, T _J =25°C			300	μA
		V _R =60V, T _J =125°C			30	mA

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



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