

TGBR15U45

Preliminary

TRENCH MOS SCHOTTKY **BARRIER RECTIFIER**

DESCRIPTION

The UTC TGBR15U45 is a trench mos schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high current capability, etc.

The UTC TGBR15U45 suitable for free wheeling, high frequency inverters, polarity protection, and low voltage.

FEATURES

- * Ultra low forward voltage drop
- * High current capability
- * High surge capability
- * High efficiency

SYMBOL

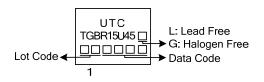
ORDERING INFORMATION

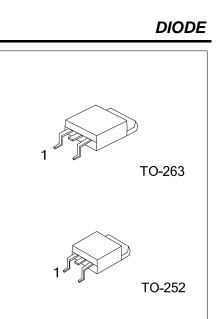
Ordering Number		Dookago	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
TGBR15U45L-TN3-R	TGBR15U45G-TN3-R	TO-252	А	К	Α	Tape Reel	
TGBR15U45L-TQ2-T	TGBR15U45G-TQ2-T	TO-263	А	K	Α	Tube	
TGBR15U45L-TQ2-R	TGBR15U45G-TQ2-R	TO-263	А	К	Α	Tape Reel	
Note: Pin Assignment: A: Anode K: Common Cathode							

K: Common Cathode Pin Assignment. A. Anoue

TGBR15U45L-TN3-R	(1) T: Tube, R: Tape Reel	
(2)Package Type	(2) TN3: TO-252, TQ2: TO-263	
(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free	9

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}	45	V			
Working Peak Reverse Voltage	V _{RWM}	45	V			
Peak Repetitive Reverse Voltage	V _{RRM}	45	V			
Average Rectified Output Current T _C =1	25°C l _o	15	А			
Non-Repetitive Peak Forward Surge Current 8.3 Single Half Sine-Wave Superimposed on Rated	5014	250	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
Turcia al Thomas al Dociatore a	TO-252	0	6	°C/W
Typical Thermal Resistance	TO-263	θ _{JC}	3	°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 =0.45mA	45			V
Forward Voltage Drop	V _{FM}	I _F =15A, TJ=25°C			0.50	V
		I _F =15A, T _J =125°C			0.45	V
Peak Reverse Current at Rated DC		V _R =45V, T _J =25°C			500	μA
Blocking Voltage	I _{RM}	V _R =45V, T _J =125°C			100	mA

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



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