

UTC UNISONIC TECHNOLOGIES CO., LTD

TGBR2S40

TRENCH MOS SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC TGBR2S40 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

* Super low forward voltage drop

* High switching speed

SYMBOL

ORDERING INFORMATION

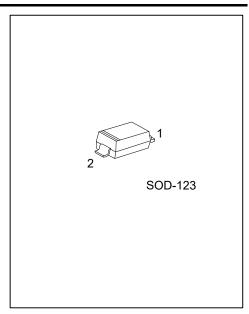
Ordering Number		Deekere	Pin Assignment		Deeking	
Lead Free	Halogen Free	Package	1	2	Packing	
TGBR2S40L-CA2-R TGBR2S40G-CA		SOD-123	А	K	Tape Reel	
Note: Pin Assignment: A: Anode K: Cathode						
TGBR2S40G-CA2-R		(1) D: Tana Baal				

	(1)Packing Type	(1) R: Tape Reel
	(2)Package Type	(2) CA2: SOD-123
	(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING







■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

Single phase, half wave, 60Hz, resistive or inductive load.

Tor capacitance load, derate current by 20%.						
PARAMETER	SYMBOL	RATINGS	UNIT			
DC Blocking Voltage	V _{RM}	40	V			
Working Peak Reverse Voltage	V _{RWM}	40	V			
Peak Repetitive Reverse Voltage	V _{RRM}	40	V			
Average Rectified Output Current Per Device T _C =140°C	lo	2	А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	15	А			
Operating Junction Temperature	ТJ	-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	θις	150	°C/W	

Note: FR-4 PCB, 2 oz Copper. Minimum recommended pad layout.

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

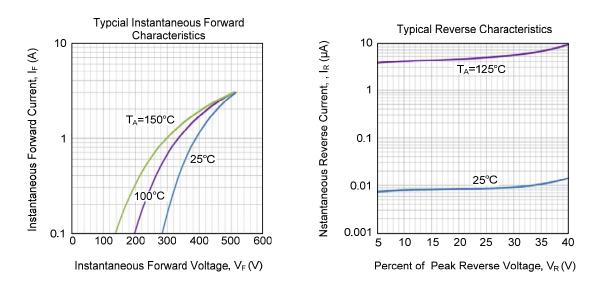
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage		I _R =0.1mA	40			V
		I⊧=2A, TJ=25°C		0.4		V
Forward Voltage Drop	Vfm	I⊧=2A, TJ=100°C		0.48	0.52	V
		I⊧=3A		0.55		V
Leakage Current	RM	V _R =40V, T _J =25°C			100	μA
		V _R =40V, T _J =100°C			50	mA

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



TGBR2S40

TYPICAL CHARACTERISTICS



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