



BAT54TS

Preliminary

DIODE

SURFACE MOUNT SCHOTTKY BARRIER

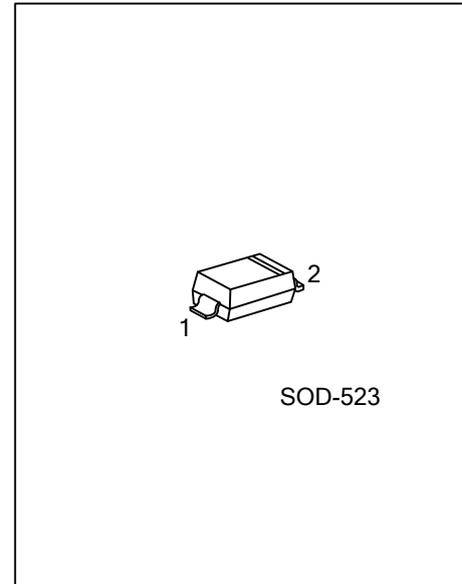
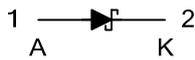
DESCRIPTION

The UTC BAT54TS is a Schottky Barrier Rectifier with high switching speed, ESD protection and low forward voltage.

FEATURES

- * High switching speed
- * Low Forward voltage

SYMBOL



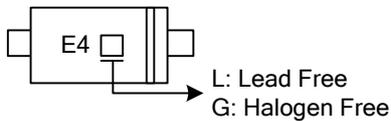
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
BAT54TSL-CC2-R	BAT54TSG-CC2-R	SOD-523	A	K	Tape Reel

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

<p>BAT54TSL-CC2-R</p>	<p>(1) R: Tape Reel</p> <p>(2) CC2 : SOD-523</p> <p>(3) G: Halogen Free, L: Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS

($T_A=25^{\circ}\text{C}$, unless otherwise specified. Fore capacitive load, derate current by 20%)

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Continuous Forward Current	I_F	0.2	A
Peak Forward Surge Current, 1.0s Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	0.6	A
Junction Capacitance ($V_R=1\text{V}$)	C_J	10	pF
Storage Temperature	T_{STG}	-55~+150	$^{\circ}\text{C}$
Operating Junction Temperature	T_J	-55~+150	$^{\circ}\text{C}$

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

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	667	$^{\circ}\text{C}/\text{W}$

■ ELECTRICAL CHARACTERISTICS

($T_A=25^{\circ}\text{C}$, unless otherwise specified. Fore capacitive load, derate current by 20%)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Maximum Instantaneous Forward Voltage	V_F	$I_F = 0.1\text{mA}$			0.24	V
		$I_F = 1\text{mA}$			0.32	V
		$I_F = 10\text{mA}$			0.4	V
		$I_F = 30\text{mA}$			0.5	V
		$I_F = 100\text{mA}$			0.8	V
DC Reverse Current at Rated DC Blocking Voltage	I_R	$V_R = 25\text{V}$			2	μA

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