



# BAT54TS

Preliminary

DIODE

## SURFACE MOUNT SCHOTTKY BARRIER

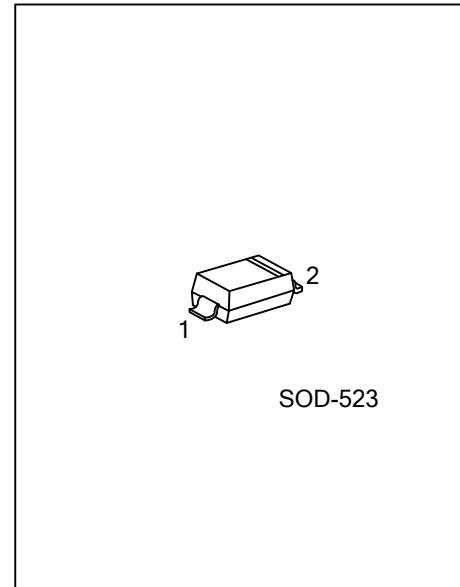
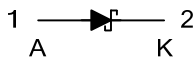
### DESCRIPTION

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



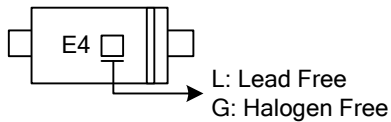
### ORDERING INFORMATION

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> <ul style="list-style-type: none"> <li>(1) Packing Type</li> <li>(2) Package Type</li> <li>(3) Halogen Free</li> </ul>	<ul style="list-style-type: none"> <li>(1) R: Tape Reel</li> <li>(2) CC2 : SOD-523</li> <li>(3) G: Halogen Free, L: Lead Free</li> </ul>
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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	$\theta_{JA}$	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	$\mu\text{A}$

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