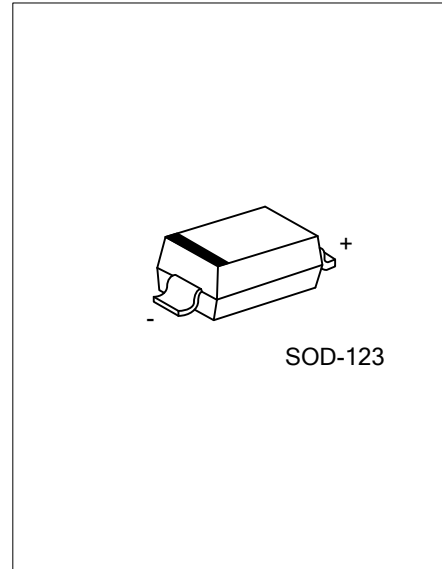




SS0540Y

SCHOTTKY BRIDGE

500mA SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER



DESCRIPTION

The UTC **SS0540Y** is a schottky bridge rectifiers, it uses UTC's advanced technology to provide customers with high surge current capability, etc.

The UTC **SS0540Y** is suitable for General purpose use in ac-to-dc bridge full wave rectification for LED bulb and telecommunication.

FEATURES

- * High surge current capability
- * Low turn-on voltage
- * Fast switching
- * Pn junction guard ring for transient and ESD protection

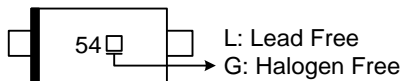
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SS0540YL-CA2-R	SS0540YG-CA2-R	SOD-123	A	K	Tape Reel

Note: Pin assignment: A: Anode K: Cathode

<p>SS0540YG-CA2-R</p>	<p>(1) R: Tape Reel</p> <p>(2) CA2: SOD-123</p> <p>(3) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



■ **ABSOLUTE MAXIMUM RATINGS** ($T_A=25^\circ\text{C}$, unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
RMS Voltage	V_{RMS}	28	V
DC Blocking Voltage	V_{DC}	40	V
Average Forward Rectified Current ($T_A=75^\circ\text{C}$)	$I_{F(AV)}$	0.5	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	5.5	A
Operating Junction Temperature Range	T_J	-55 ~ +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-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.

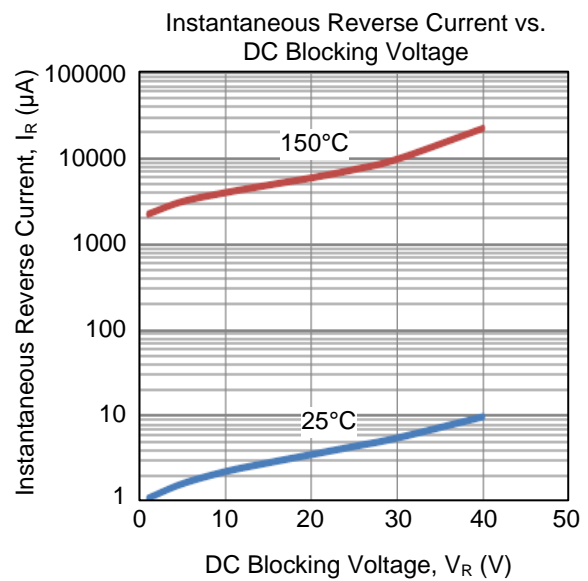
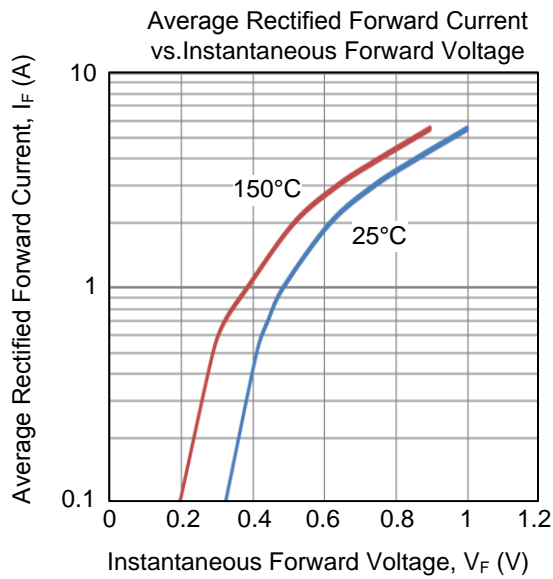
■ **THERMAL DATA**

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	244	$^\circ\text{C/W}$

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 1)	V_F	$I_F=0.5\text{A}$			0.51	V
		$I_F=1.0\text{A}$			0.62	V
DC Reverse Current at Rated DC Blocking Voltage (Note 2)	I_R	$V_R=20\text{V}, T_J=25^\circ\text{C}$			10	μA
		$V_R=40\text{V}, T_J=100^\circ\text{C}$			20	μA
Junction Capacitance	C_J	$V_R=1.0\text{V}, f=1.0\text{MHz}$		78		pF

■ TYPICAL CHARACTERISTICS



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