



SK54

DIODE

5.0A, 40V SCHOTTKY RECTIFIER

DESCRIPTION

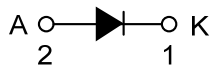
The UTC **SK54** is a schottky rectifier, it uses UTC's advanced technology to provide the customers with high current capability and low forward voltage, etc.

The UTC **SK54** is suitable for surface mount applications, etc.

FEATURES

- * High current capability
- * Low forward voltage

SYMBOL



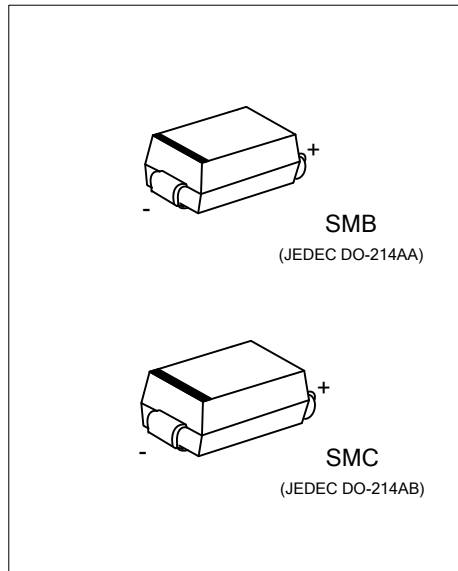
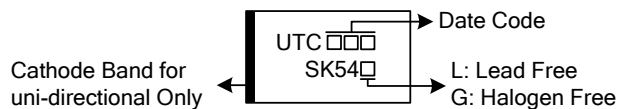
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SK54L-SMB-R	SK54G-SMB-R	SMB	K	A	Tape Reel
SK54L-SMC-R	SK54G-SMC-R	SMC	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>SK54L-SMB-R</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) R: Tape Reel (2) SMB: SMB, SMC: SMC (3) L: Lead Free, G: Halogen Free and Lead Free
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MARKING



■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_B	40	V
Recurrent Peak Reverse Voltage	V_R	40	V
Average Forward Rectified Current	I_O	5.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load (JEDEC Method)	I_{FSM}	100	A
Operating Junction Temperature	T_J	-55 ~ +150	°C
Storage Temperature	T_{STG}	-55 ~ +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 DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	55	°C/W
Junction to Lead	θ_{JL}	16	°C/W

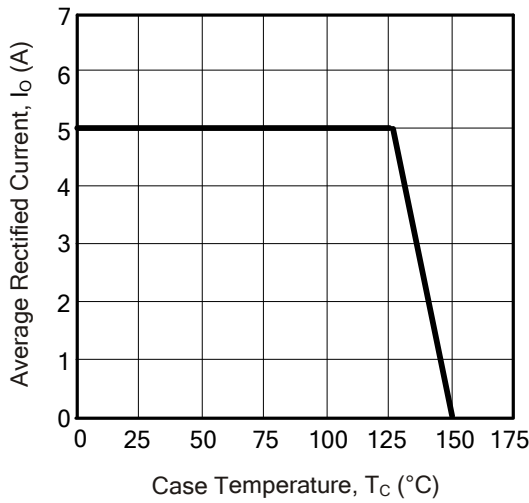
■ ELECTRICAL CHARACTERISTICS ($T_J=25^\circ\text{C}$ unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_F	$I_{FM}=5.0\text{A}$, $T_J=25^\circ\text{C}$			0.55	V
DC Reverse Current At	I_R	$T_J=25^\circ\text{C}$			1.0	mA
Rated DC Blocking Voltage		$T_J=100^\circ\text{C}$			20	mA
Junction Capacitance	C_J	Measured at 1.0MHz, $V_R=4.0\text{V}$		200		pF

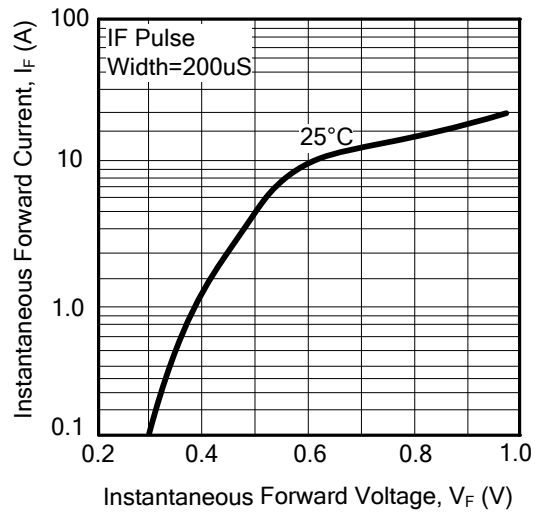
Notes: 1. Pulse test: Pulse width 200µsec, Duty cycle 2%.
2. High temperature solder exemptions applied.

■ TYPICAL CHARACTERISTICS

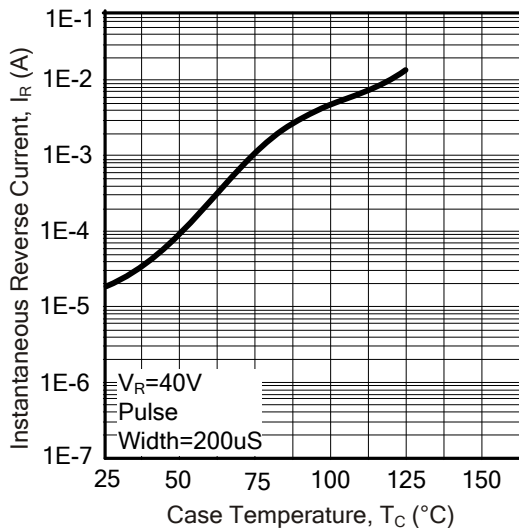
Forward Derating Curve



Typical Forward Characteristics



Typical Reverse Characteristics



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