



SK34

DIODE

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

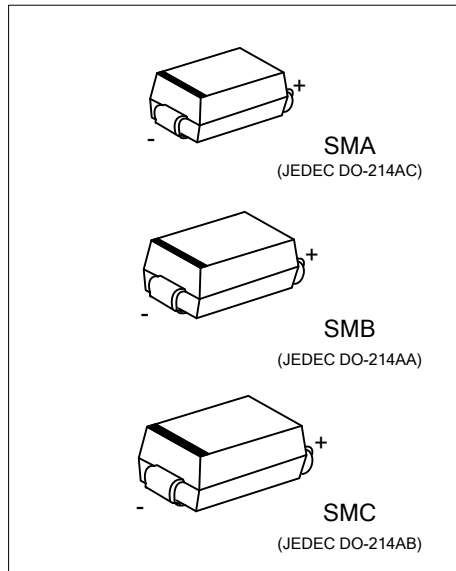
DESCRIPTION

The UTC **SK34** is a Schottky Rectifier with high current capacity, ultra low thermal resistance, Low reverse leakage and low forward voltage.

The UTC **SK34** is suitable for surface mount applications.

FEATURES

- * High Current Capability
- * Low Forward Voltage
- * Low Reverse Leakage



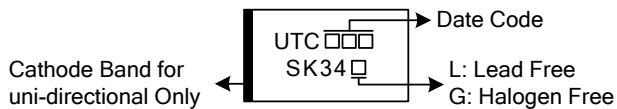
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SK34L-SMA-R	SK34G-SMA-R	SMA	K	A	Tape Reel
SK34L-SMB-R	SK34G-SMB-R	SMB	K	A	Tape Reel
SK34L-SMC-R	SK34G-SMC-R	SMC	K	A	Tape Reel

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

<p>SK34L-SMA-R</p> <p>(1) Packing Type (2) Package Type (3) Green Package</p>	<p>(1) R: Tape Reel (2) SMA: SMA, SMB: SMB, SMC: SMC (3) L: Lead Free, G: Halogen Free and Lead Free</p>
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MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
RMS Voltage	V_{RMS}	28	V
DC Blocking Voltage	V_{DC}	40	V
Average Forward Rectified Current	I_O	3.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load (JEDEC Method)	I_{FSM}	100	A
Operating Temperature	T_J	-65~+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-65~+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 (Note)	θ_{JA}	60	$^{\circ}\text{C}/\text{W}$

Note: 8.0mm^2 (0.13mm thick) land pads.

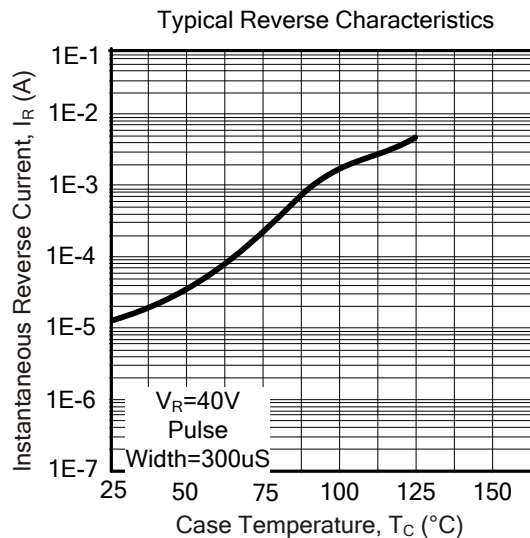
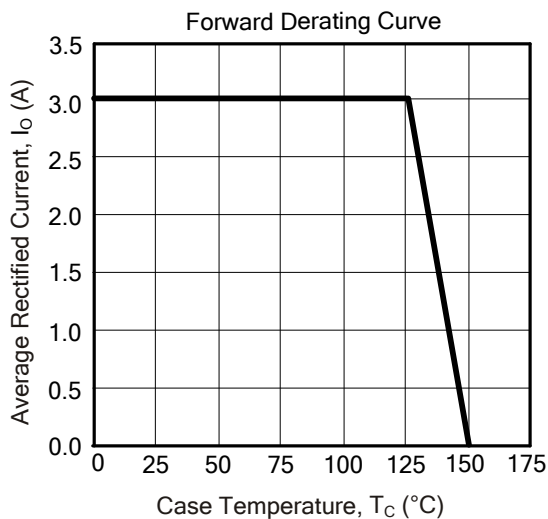
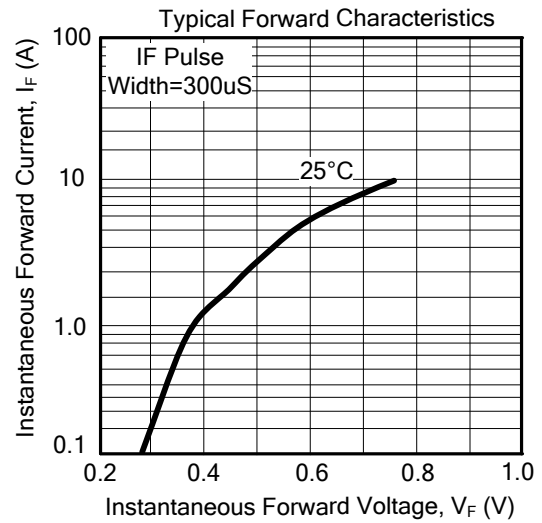
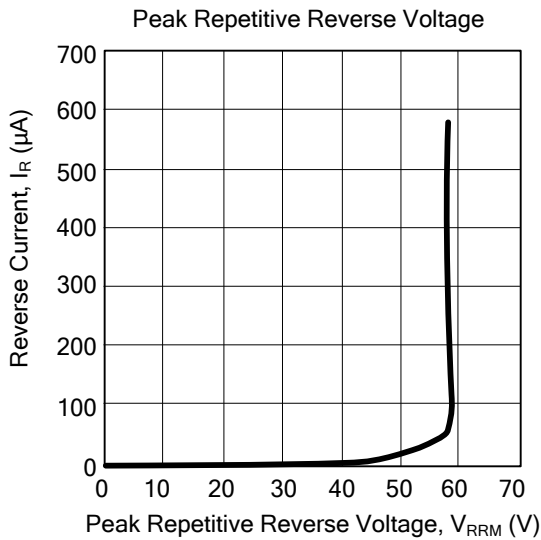
■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Instantaneous Forward Voltage at 3.0A (Note 1)	V_F	0.50	V
DC Reverse Current at Rated DC Blocking Voltage (Note 1)	I_R	$T_A=25^{\circ}\text{C}$	0.5
		$T_A=100^{\circ}\text{C}$	20
Typical Total Capacitance (Note 2)	C_T	300	pF

Notes: 1. Pulse Test Pulse Width 300 μs , Duty Cycle 2%.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.