



SK34

DIODE

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

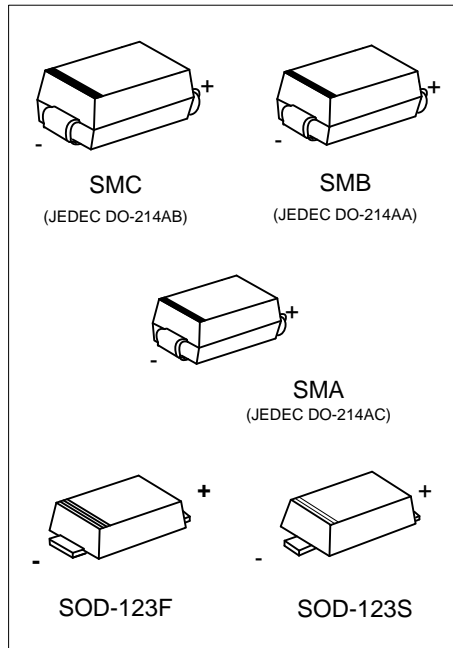
DESCRIPTION

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
SK34L-CA2F-R	SK34G-CA2F-R	SOD-123F	K	A	Tape Reel
SK34L-CA2S-R	SK34G-CA2S-R	SOD-123S	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>SK34G-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 CA2F: SOD-123F, CA2S: SOD-123S, (3) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING

SMA / SMB / SMC	SOD-123F / SOD-123S
<p>Cathode Band for uni-directional Only</p> <p>UTC □ □ □ □ → Date Code SK34 □ → L: Lead Free G: Halogen Free</p>	<p>K34 □ → L: Lead Free G: Halogen Free</p>

■ **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 ~ +125	$^{\circ}\text{C}$
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 (Note)**

PARAMETER	SYMBOL	RATINGS	UNIT
Typical Thermal Resistance	SMA	32	$^{\circ}\text{C}/\text{W}$
	SMB	20	$^{\circ}\text{C}/\text{W}$
	SMC	11	$^{\circ}\text{C}/\text{W}$
	SOD-123F SOD-123S	25	$^{\circ}\text{C}/\text{W}$

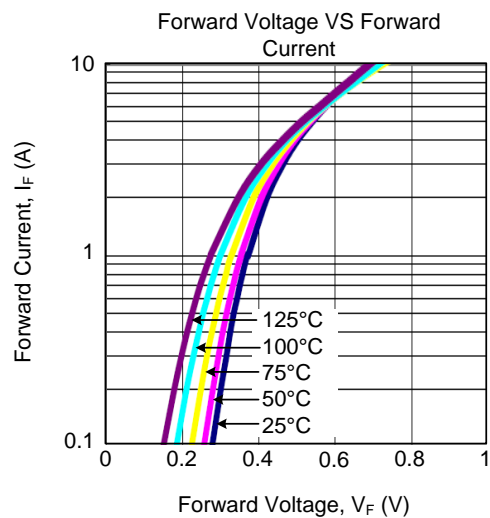
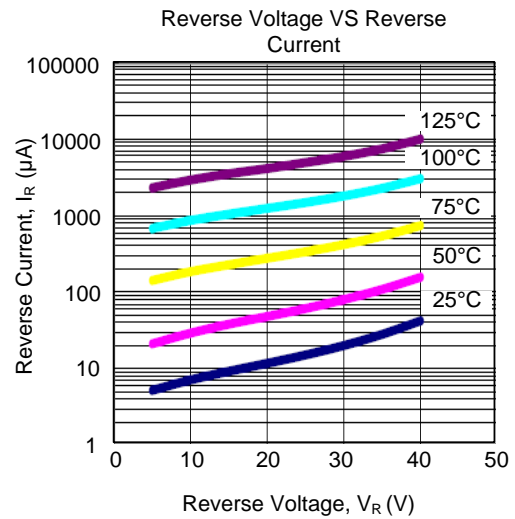
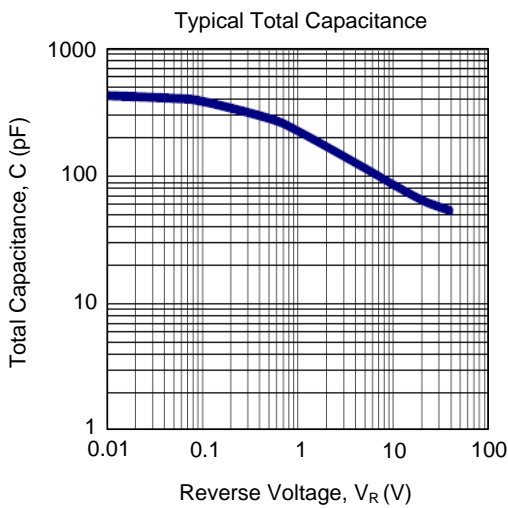
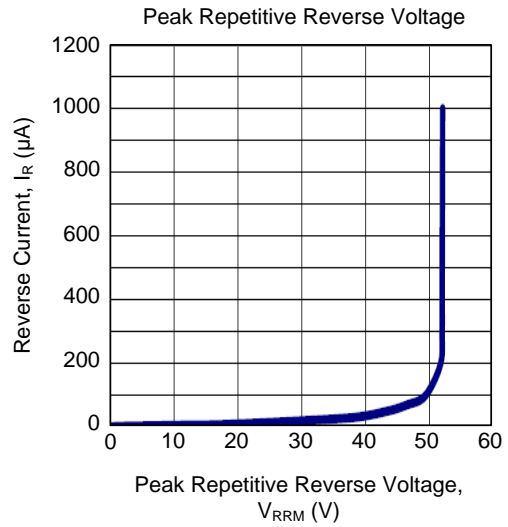
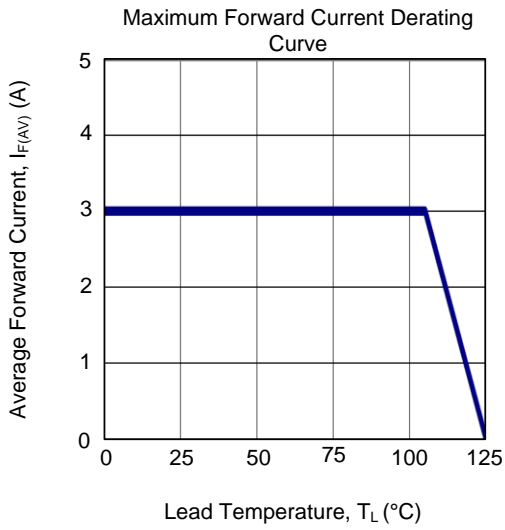
Notes: FR-4 PCB, 2 oz Copper. Minimum recommended pad layout.

■ **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)	$T_A=25^{\circ}\text{C}$	0.5	mA
	$T_A=100^{\circ}\text{C}$	20	mA
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



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