



# SK34

**DIODE**

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

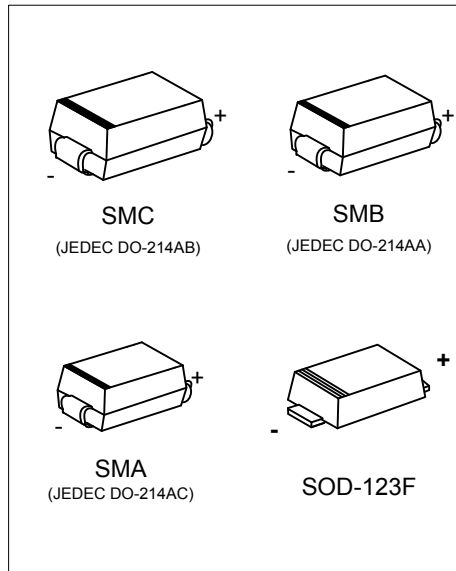
### DESCRIPTION

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

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 (3) G: Halogen Free and Lead Free, L: Lead Free</p>
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### MARKING

SMA / SMB / SMC	SOD-123F

■ 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	$\theta_{JL}$	25	$^{\circ}\text{C}/\text{W}$
		32	$^{\circ}\text{C}/\text{W}$
		20	$^{\circ}\text{C}/\text{W}$
		11	$^{\circ}\text{C}/\text{W}$

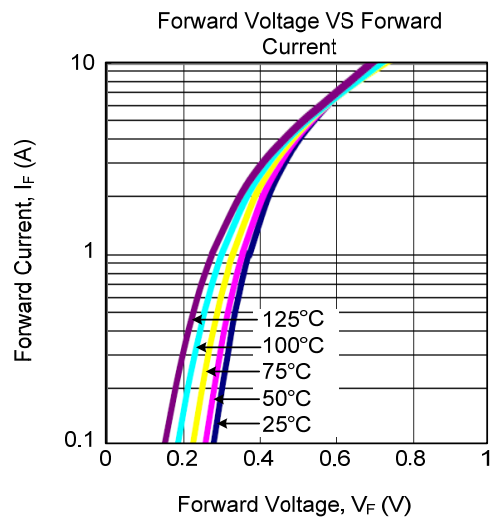
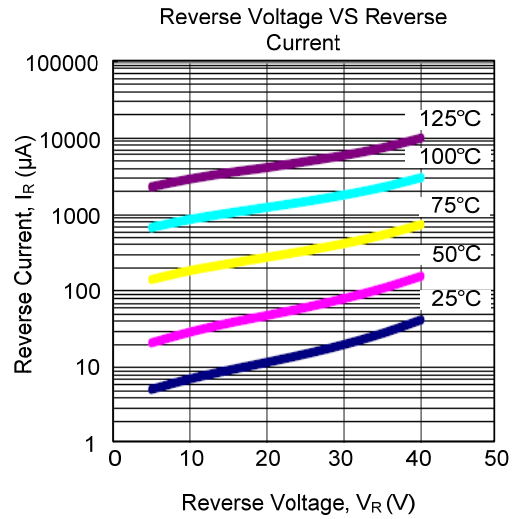
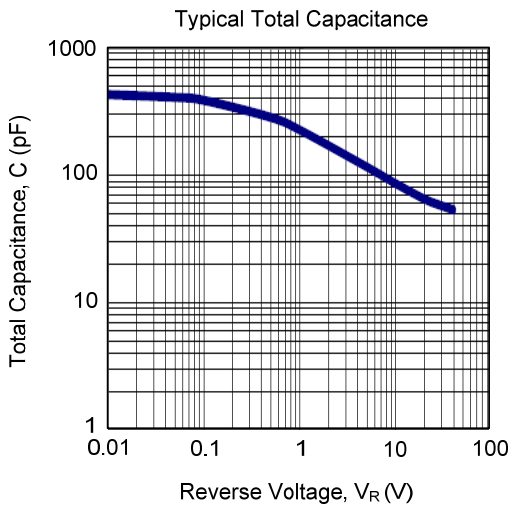
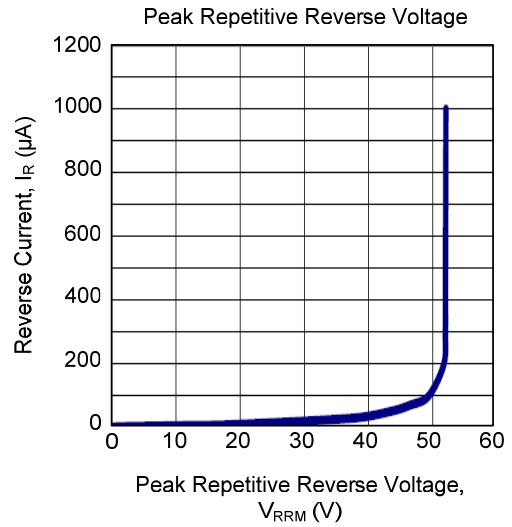
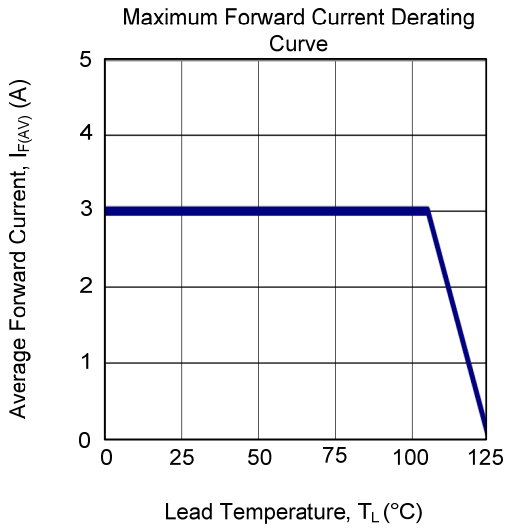
Notes: FR-4 PCB, 2 oz Copper. Minimum recommended pad layout.

■ 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)	$I_R$	$T_A=25^{\circ}\text{C}$	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 $\mu\text{s}$ , Duty Cycle 2%.  
2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

■ TYPICAL CHARACTERISTICS



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