



## SK34

Preliminary

DIODE

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

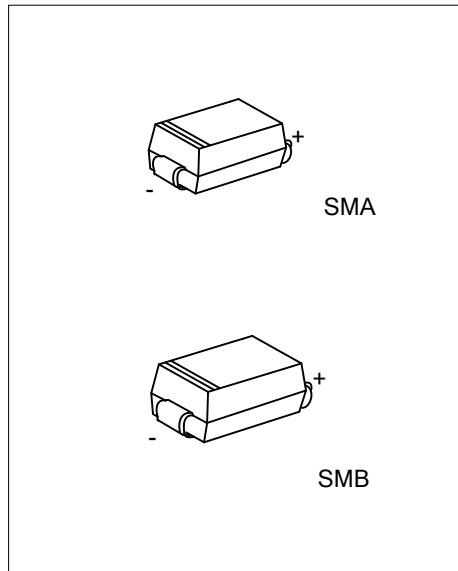
#### DESCRIPTION

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

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

<p>SK34L-SMA-R</p> <p>(1) Packing Type (2) Package Type (3) Lead Free</p>	<p>(1) R: Tape Reel (2) SMA: SMA, SMB: SMB (3) Halogen Free, L: Lead Free</p>
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■ 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	$I_{(AV)}$	3.0	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)	$\theta_{JA}$	60	$^{\circ}\text{C/W}$

Note:  $8.0\text{mm}^2$  (0.13mm thick) land pads.

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

PARAMETER	SYMBOL	RATINGS	UNIT	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load (JEDEC Method)	$I_{FSM}$	100	A	
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	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 $\mu\text{s}$ , Duty Cycle 2%.  
2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

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