



SK310

Preliminary

DIODE

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

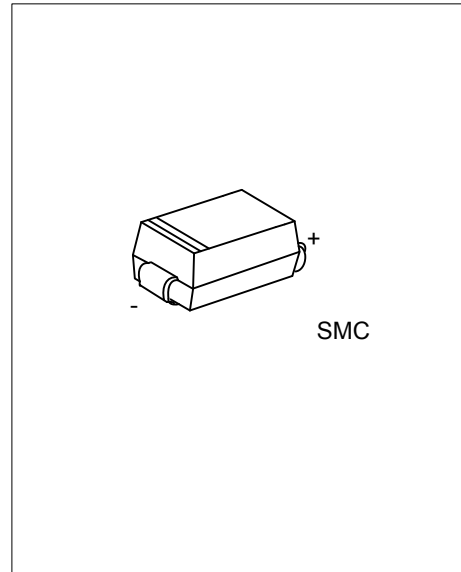
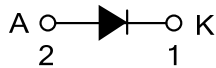
The UTC **SK310** is a Schottky Rectifier with high current capacity, ultra low thermal resistance, Low reverse leakage and low forward voltage.

The UTC **SK310** is suitable for surface mount applications.

FEATURES

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

SYMBOL



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SK310L-SMC-R	SK310G-SMC-R	SMC	K	A	Tape Reel

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

	<p>(1) R: Tape Reel (2) SMC: SMC (3) G: 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}	100	V
RMS Voltage	V_{RMS}	70	V
DC Blocking Voltage	V_{DC}	100	V
Average Forward Rectified Current	$I_{F(AV)}$	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	-55~+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~+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}	75	$^{\circ}\text{C}/\text{W}$

Note: 8.0mm² (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	0.85	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note1)	I_R	$T_A=25^{\circ}\text{C}$	0.5	mA
		$T_A=100^{\circ}\text{C}$	20	mA
Typical Total Capacitance (Note2)	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.

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