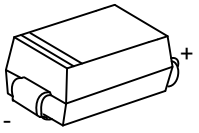
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



SMC

■ DESCRIPTION

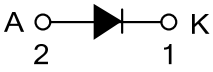
The UTC **SK310** is a Schottky Rectifier with high current capacity, ultra low thermal resistance, Low reverse leakage and low forward voltage.

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

SK310L-SMC-R
(1)Packing Type
(2)Package Type
(3)Lead Free

(1) R: Tape Reel
(2) SMC: SMC
(3) G: Halogen Free, L: Lead Free

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°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	°C
Storage Temperature	T_{STG}	-55~+150	°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	°C/W

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

■ ELECTRICAL CHARACTERISTICS (T_A=25°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	T_A=25°C	I_R	0.5	mA
Rated DC Blocking Voltage (Note1)	T_A=100°C		20	mA
Typical Total Capacitance (Note2)		C_T	300	pF

Notes: 1. Pulse Test Pulse Width 300μS, Duty Cycle 2%.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V.