



# SK24

DIODE

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

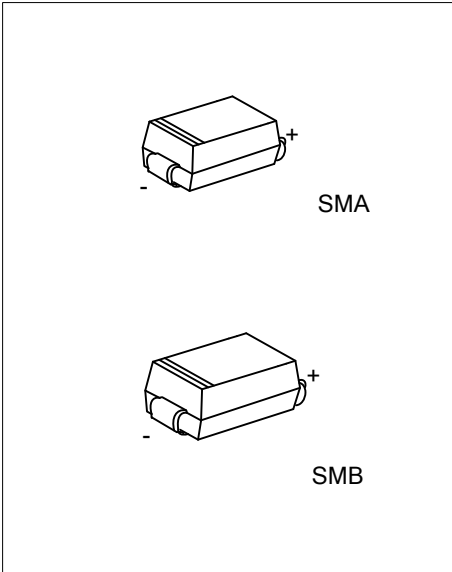
### DESCRIPTION

The UTC **SK24** is a Schottky Rectifier with high current capacity, ultra low thermal resistance, Low reverse leakage and low forward voltage.

The UTC **SK24** is suitable for surface mount applications.

### FEATURES

- \* High Current Capability
- \* Low Forward Voltage
- \* Low Reverse Leakage
- \* Higher Temp Soldering: 250°C for 10 Seconds At Terminals



### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SK24L-SMA-R	SK24G-SMA-R	SMA	K	A	Tape Reel
SK24L-SMB-R	SK24G-SMB-R	SMB	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>SK24L-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) 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	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		V
DC Blocking Voltage	$V_R$		V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Operating Temperature	$T_J$	+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

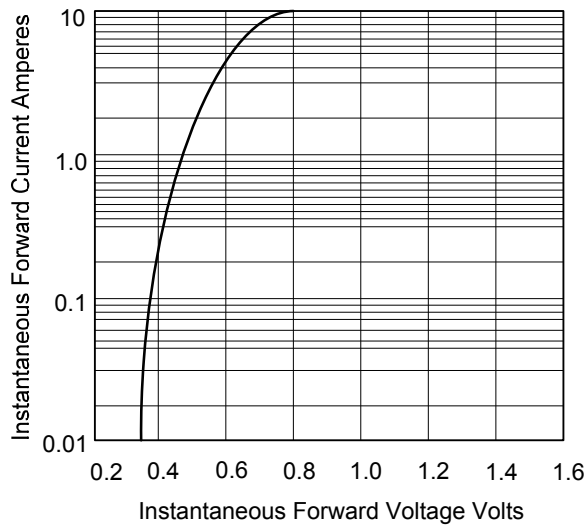
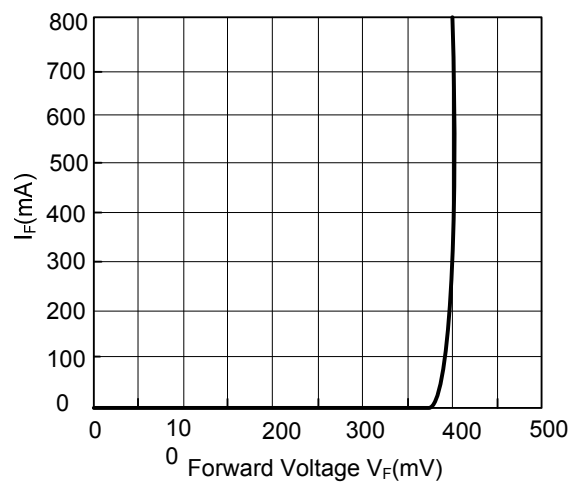
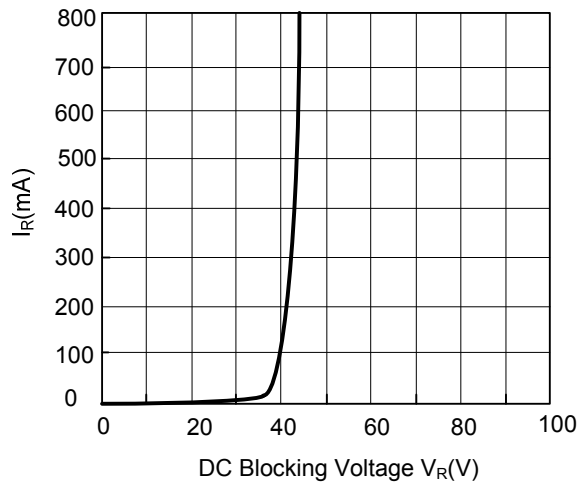
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient (Note 1)	$\theta_{JA}$	75	$^{\circ}\text{C}/\text{W}$

Note: 1. Mounted on P.C. Board with 5.0mm<sup>2</sup> copper pad area.

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

PARAMETER	SYMBOL	RATINGS	UNIT
Average Rectified Output Current ( $T_L=75^{\circ}\text{C}$ )	$I_O$	2.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load (JEDEC Method)	$I_{FSM}$	50	A
Forward Voltage ( $I_F=2.0\text{A}$ )	$V_{FM}$	0.50	V
Peak Reverse Current At Rated DC Blocking Voltage	$I_{RM}$	$T_A=25^{\circ}\text{C}$ 0.5	mA
		$T_A=100^{\circ}\text{C}$ 20	mA

## ■ TYPICAL CHARACTERISTICS



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