



SK24

DIODE

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

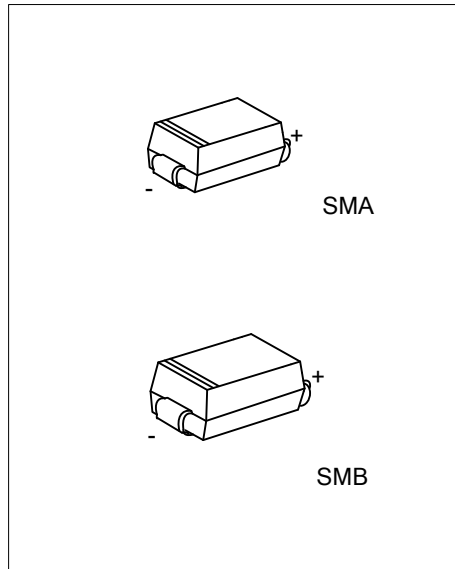
DESCRIPTION

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



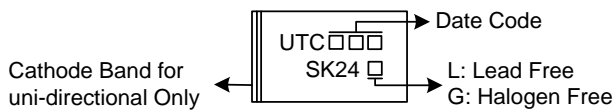
ORDERING INFORMATION

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>SK24G-SMA-R</p> <p>(1) Packing Type (2) Package Type (3) Green Package</p>	<p>(1) R: Tape Reel (2) SMA: SMA, SMB: SMB (3) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



■ **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**

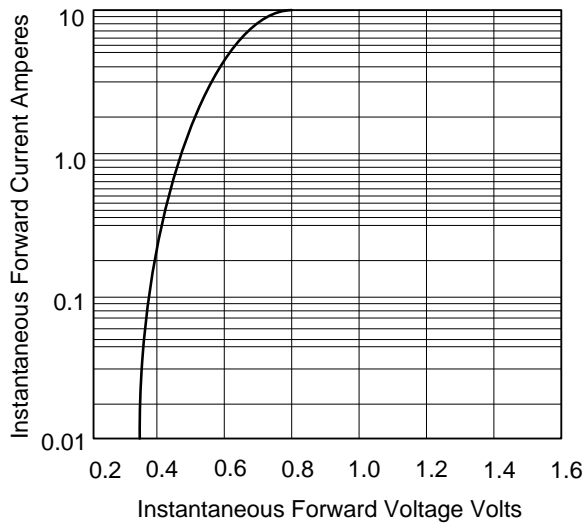
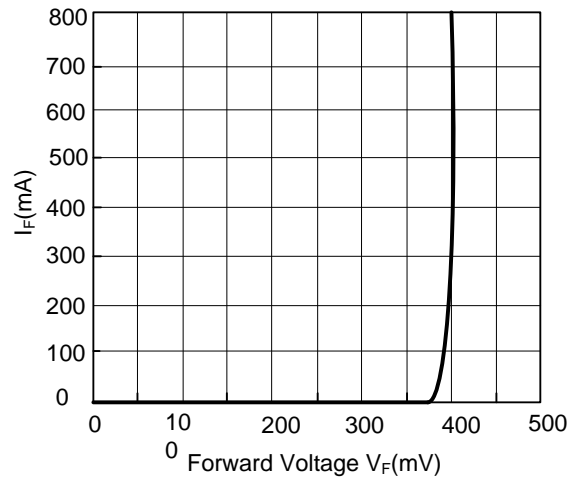
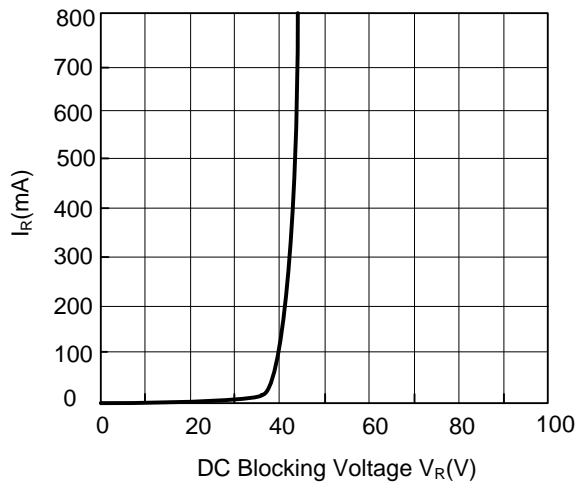
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient (Note 1)	θ_{JA}	75	$^{\circ}\text{C}/\text{W}$

Note: Mounted on P.C. Board with 5.0mm² 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	I_{RM}	$T_A=25^{\circ}\text{C}$	0.5	mA
Blocking Voltage		$T_A=100^{\circ}\text{C}$	20	mA

■ TYPICAL CHARACTERISTICS



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