



SK24

DIODE

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

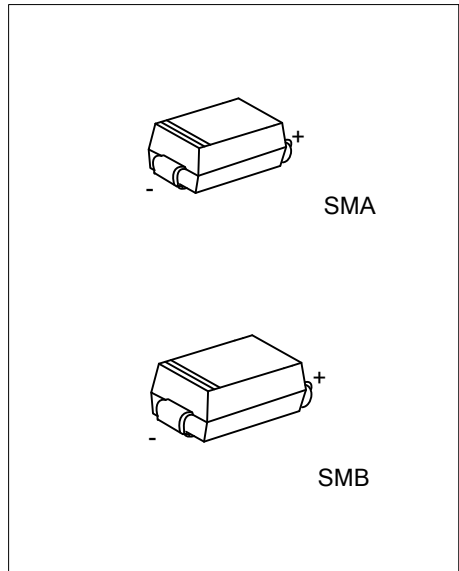
■ DESCRIPTION

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

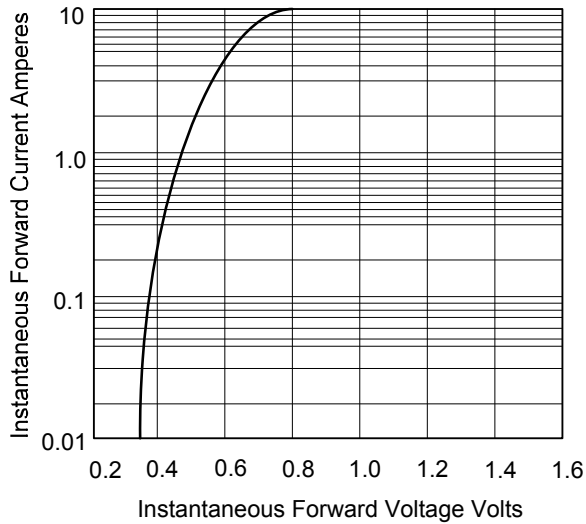
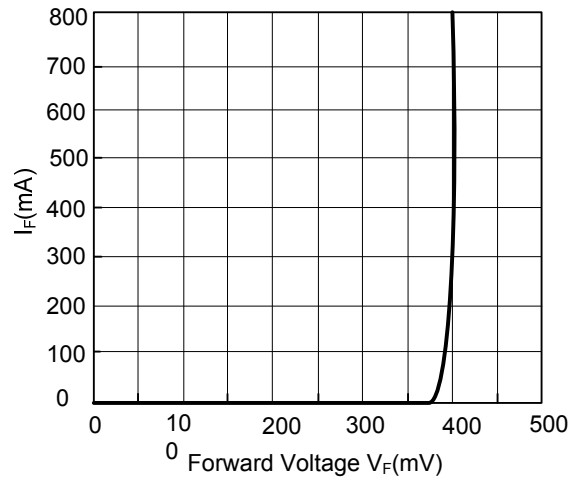
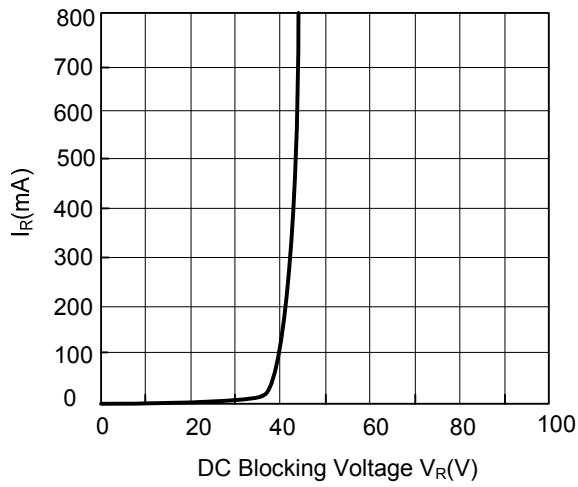
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient (Note 1)	θ_{JA}	75	$^\circ\text{C}/\text{W}$

Note: 1. Mounted on P.C. Board with 5.0mm^2 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	$T_A=25^\circ\text{C}$	I_{RM}	0.5
	$T_A=100^\circ\text{C}$		20

■ TYPICAL CHARACTERISTICS



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