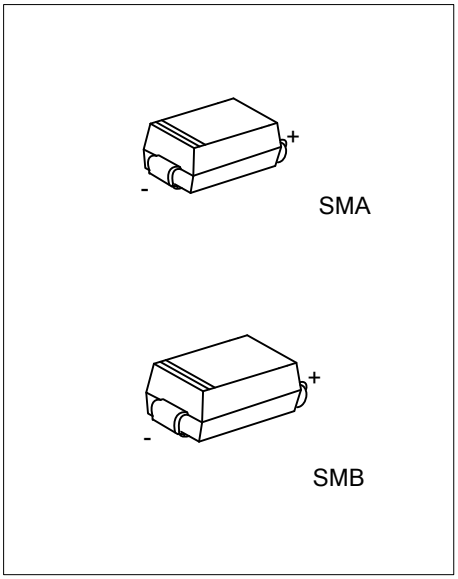
SK24

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

SK24L-SMA-R (1)Packing Type (2)Package Type (3)Lead Free	(1) R: Tape Reel (2) SMA: SMA, SMB: SMB (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}	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	°C
Storage Temperature	T_{STG}	-65~+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 1)	θ_{JA}	75	°C/W

Note: 1. Mounted on P.C. Board with 5.0mm^2 copper pad area.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Average Rectified Output Current (T_L=75°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=2.0A)		V_{FM}	0.50	V
Peak Reverse Current At Rated DC Blocking Voltage	T_A=25°C	I_{RM}	0.5	mA
	T_A=100°C		20	mA

■ TYPICAL CHARACTERISTICS