

UTC UNISONIC TECHNOLOGIES CO., LTD

SK54 DIODE

> SMB (JEDEC DO-214AA)

SMC (JEDEC DO-214AB)

QW-R601-092.D

5.0A, 40V SCHOTTKY **RECTIFIER**

DESCRIPTION

The UTC SK54 is a schottky rectifier, it uses UTC's advanced technology to provide the customers with high current capability and low forward voltage, etc.

The UTC **SK54** is suitable for surface mount applications, etc.

FEATURES

- * High current capability
- * Low forward voltage

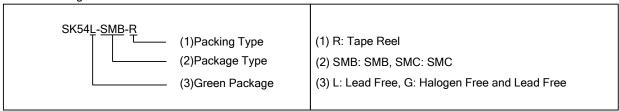
SYMBOL



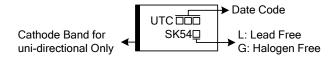
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment		Dooking
Lead Free	Halogen Free	Package	1	2	Packing
SK54L-SMB-R	SK54G-SMB-R	SMB	K	Α	Tape Reel
SK54L-SMC-R	SK54G-SMC-R	SMC	K	Α	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode



MARKING



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www.unisonic.com.tw 1 of 3 SK54

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_{B}	40	V
Recurrent Peak Reverse Voltage	V_R	40	V
Average Forward Rectified Current	lo	5.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load (JEDEC Method)	I _{FSM}	100	А
Operating Junction Temperature	TJ	-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	θ_{JA}	55	°C/W
Junction to Lead	θ_{JL}	16	°C/W

■ **ELECTRICAL CHARACTERISTICS** (T_J =25°C unless otherwise specified.)

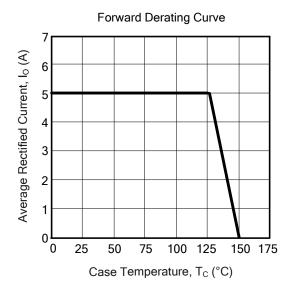
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_{F}	I _{FM} =5.0A, T _J =25°C			0.55	V
DC Reverse Current At		T _J =25°C			1.0	mA
Rated DC Blocking Voltage	IR	T _J =100°C			20	mA
Junction Capacitance	CJ	Measured at 1.0MHz, V _R =4.0V		200		pF

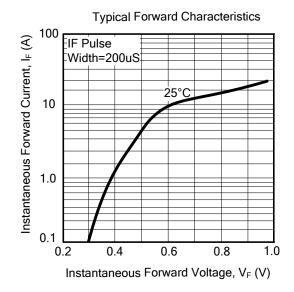
Notes: 1. Pulse test: Pulse width 200µsec, Duty cycle 2%.

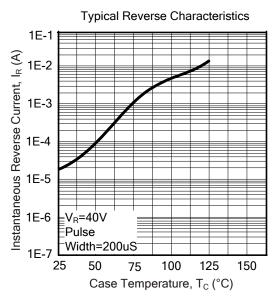
^{2.} High temperature solder exemptions applied.

SK54

■ TYPICAL CHARACTERISTICS







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