

UNISONIC TECHNOLOGIES CO., LTD

SK54 Preliminary DIODE

5A, 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.

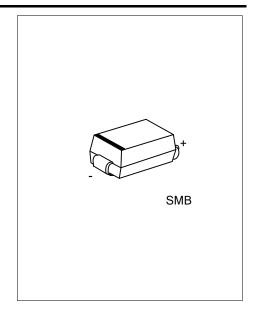
The UTC **SK54** is suitable for surface mount applications, etc.

FEATURES

- * High current capability
- * Low forward voltage

SYMBOL

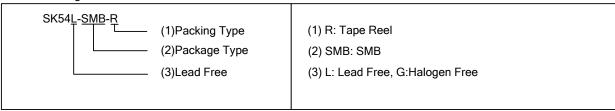




ORDERING INFORMATION

Ordering Number		Dankana	Pin Assignment		Do aliin n	
Lead Free	Halogen Free	Package	1	2	Packing	
SK54L-SMB-R	SK54G-SMB-R	SMB	K	Α	Tape Reel	

Note: Pin Assignment: A: Anode K: Cathode



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■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT	
DC Blocking Voltage	V_B	40	V	
RMS Voltage	V_{RMS}	28	V	
Recurrent Peak Reverse Voltage	V_R	40	V	
Junction to Lead	θ_{JL}	16	°C/W	
Junction to Ambient	θ_{JA}	55	°C/W	
Storage Temperature	T _{STG}	-55~+150	°C	
Operating Junction Temperature	TJ	-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.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Average Forward Current	I _{F(AV)}	T _A =120°C		5.0		Α
Peak Forward Surge Current	I _{FSM}	8.3ms, Half Sine		100		Α
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: Pulse test: Pulse width 200µsec, Duty cycle 2%.

High temperature solder exemptions applied.

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