



SS14W

Preliminary

DIODE

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC **SS14W** is a surface mount schottky barrier rectifier, it uses UTC's advanced technology to provide customers with high current capacity, high efficiency and low forward voltage, etc.

The UTC **SS14W** is suitable for polarity protection, low voltage high frequency inverters and free wheeling applications, etc.

FEATURES

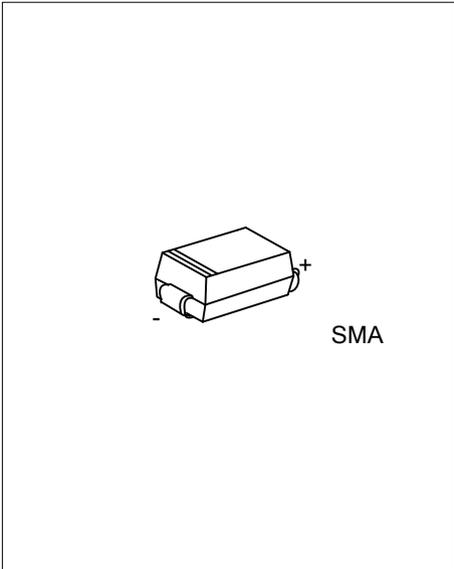
- * High current capacity
- * Low forward voltage
- * Low power consumption
- * High efficiency

ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SS14WL-SMA-R	SS14WG-SMA-R	SMA	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>SS14WL-SMA-R</p> <p>(1)Packing Type (2)Package Type (3)Lead Free</p>	<p>(1) R: Tape Reel (2) SMA: SMA (3) L: Lead Free, G:Halogen Free</p>
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■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$, unless otherwise specified.)

PARAMETER		SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage		V_{RRM}	40	V
RMS Voltage		V_{RMS}	28	V
Average Forward Current	.375" (9.5mm) lead length at $T_L=75^\circ\text{C}$	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current	8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30	A
Storage Temperature		T_{STG}	-40~+150	$^\circ\text{C}$
Operating Junction Temperature		T_J	-40~+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 CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified.) (Note)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	88	$^\circ\text{C/W}$
Junction to Case	θ_{JC}	28	$^\circ\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage (Note)	V_F	$I_F=1.0\text{A}$			0.5	V
DC Reverse Current at Rated DC	I_R	$T_J=25^\circ\text{C}$			0.5	mA
Blocking Voltage		$T_J=100^\circ\text{C}$			50	mA

Note: Pulse test with $PW=300\mu\text{s}$, 1% duty cycle.

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