



SK56

Preliminary

DIODE

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

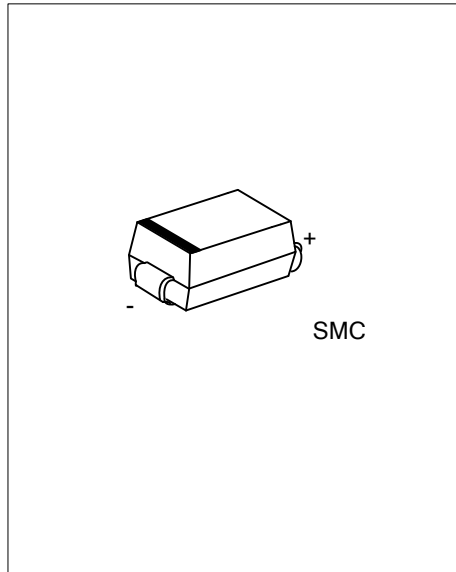
DESCRIPTION

The UTC **SK56** is a surface mount schottky barrier rectifier, it uses UTC's advanced technology to provide customers with high efficiency, etc.

The UTC **SK56** is suitable for low voltage high frequency inverters, free wheeling and polarity protection applications.

FEATURES

- * Low power loss
- * High efficiency
- * High surge capacity



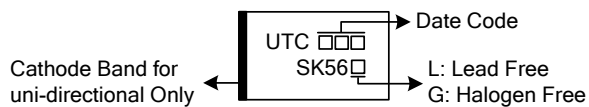
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SK56L-SMC-R	SK56G-SMC-R	SMC	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>SK56L-SMC-R</p> <p>(1) Packing Type (2) Package Type (3) Green Package</p>	<p>(1) R: Tape Reel (2) SMC: SMC (3) L: Lead Free, G: Halogen Free and Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

PARAMETER	SYMBOL	RATINGS	UNIT
Recurrent Peak Reverse Voltage	V_{RRM}	60	V
RMS Voltage	V_{RMS}	42	V
DC Blocking Voltage	V_{DC}	60	V
Average Forward Rectified Current at $T_L=75^\circ\text{C}$	$I_{F(AV)}$	5.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	100	A
Junction Temperature	T_J	-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

Note: Mounted on P.C. Board with 14mm² (.013mm thick) copper pad areas.

■ ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage (Note 1)	V_F	$I_F=5.0\text{A}$			0.75	V
DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_J=25^\circ\text{C}$			1	mA
		$T_J=100^\circ\text{C}$			30	mA

Note: Pulse Test with $P_W = 300\mu\text{s}$, 1% Duty Cycle.

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