

UTC UNISONIC TECHNOLOGIES CO., LTD

SK56 Preliminary DIODE

SURFACE MOUNT SCHOTTKY **BARRIER RECTIFIER**

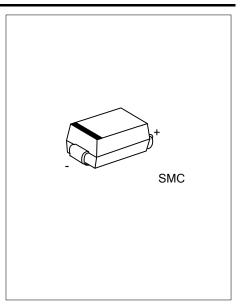
DESCRIPTION

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

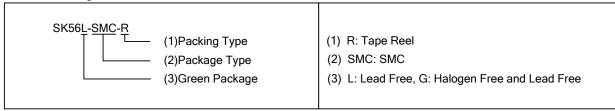
- * Low power loss
- * High efficiency
- * High surge capacity



ORDERING INFORMATION

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

Pin Assignment: A: Anode Note: K: Cathode



MARKING



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■ 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°C	I _{F(AV)}	5.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC	I _{ESM}	100	Α
Method)	i F 2 IVI	100	, , , , , , , , , , , , , , , , , , ,
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 =5.0A			0.75	V
DC Reverse Current at Rated DC Blocking Voltage	I _R	T _J =25°C			1	mA
		T ₁ =100°C			30	mΑ

Note: Pulse Test with P_W = 300 μ s, 1% Duty Cycle.

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