



SK86

Preliminary

DIODE

8A, 60V SCHOTTKY RECTIFIER

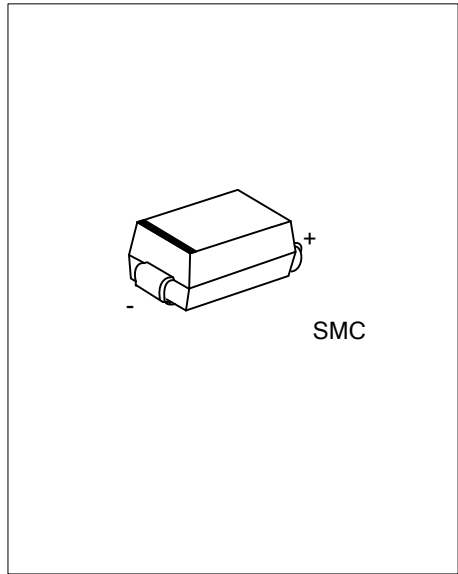
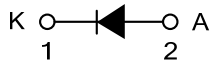
DESCRIPTION

The UTC SK86 is a schottky rectifier diode, it uses UTC's advanced technology to provide customers with low forward voltage and high current capability, etc.

FEATURES

- * High current capability
- * Low forward voltage

SYMBOL



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SK86-SMC-R	SK86-SMC-R	SMC	K	A	Tape Reel

Note: Pin Assignment: A: Anode, K: Cathode

<p>SK86L-SMC-R</p> <p>(1)Packing Type (2)Package Type (3)Lead Free</p>	<p>(1) R: Tape Reel (2) SMC: SMC (3) L: Lead Free, G: Halogen Free</p>
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■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
RMS Voltage	V_{RMS}	42	V
Recurrent Peak Reverse Voltage	V_R	60	V
DC Blocking Voltage	V_B	60	V
Storage Temperature	T_{STG}	-55~+125	°C
Operating Temperature	T_{OPR}	-55~+125	°C
Junction Temperature	T_J	150	°C
Thermal Resistance Junction To Lead	θ_{JL}	18	°C/W

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 ($T_J=25^\circ\text{C}$ unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Average Forward Current	$I_{F(AV)}$	$T_L=95^\circ\text{C}$		8.0		A
Peak Forward Surge Current	I_{FSM}	8.3ms, Half Sine		200		A
Instantaneous Forward Voltage	V_F	$I_{FM}=8.0\text{A}$, $T_J=25^\circ\text{C}$ (Note 1)			0.65	V
DC Reverse Current At	I_R	$T_J=25^\circ\text{C}$			1	mA
Rated DC Blocking Voltage		$T_J=100^\circ\text{C}$			20	mA
Junction Capacitance	C_J	Measured at 1.0MHz, $V_R=4.0\text{V}$		400		pF

Note: 1. High temperature solder exemptions applied.

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