



# 2SC4672

## NPN EPITAXIAL SILICON TRANSISTOR

### LOW FREQUENCY TRANSISTOR (50V,2A)

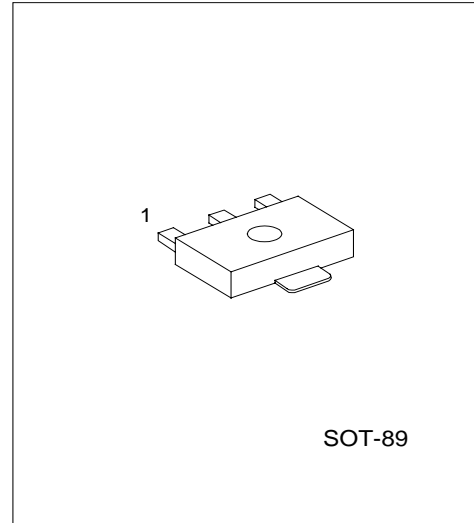
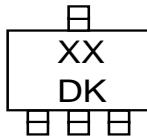
■ DESCRIPTION

The UTC 2SC4672 is a low frequency transistor. Excellent DC current gain characteristics.

■ FEATURES

- \*Low saturation voltage, typically  $V_{CE(sat)}=0.1V$  at  $I_C / I_B=1A / 50mA$
- \*Excellent DC current gain characteristics

■ MARKING



\*Pb-free plating product number: 2SC4672L

■ PIN CONFIGURATION

PIN NO.	PIN NAME
1	Emitter
2	Collector
3	Base

[www.DataSheet4U.com](http://www.DataSheet4U.com)

■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead free		
2SC4672-AB3-R	2SC4672L-AB3-R	SOT-89	Tape Reel

■ ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	V <sub>CBO</sub>	60	V
Collector to Emitter Voltage	V <sub>CEO</sub>	50	V
Emitter to Base Voltage	V <sub>EBO</sub>	6	V
Collector Current	I <sub>C</sub>	2	A
Collector Current (Pulse) (Note 1)	I <sub>CP</sub>	5	A
Collector Dissipation	P <sub>C</sub>	500	mW
Junction Temperature	T <sub>J</sub>	+150	°C
Storage Temperature	T <sub>STG</sub>	-40 ~ +150	°C

Note1: Single pulse, P<sub>W</sub>=10ms

■ ELECTRICAL CHARACTERISTICS (Ta= 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> =50μA	60			V
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> =1mA	50			V
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> =50μA	6			V
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> =60V			0.1	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =5V			0.1	μA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> /I <sub>B</sub> =1A/50mA (Note1)		0.1	0.35	V
DC Current Transfer Ratio	h <sub>FE</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =0.5A (Note1)	120		400	
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =2V, I <sub>E</sub> =-0.5A, f=100MHz		210		MHz
Output Capacitance	Cob	V <sub>CB</sub> =10V, I <sub>E</sub> =0A, f=1MHz		25		pF

Note 1: Measured using pulse current.

■ CLASSIFICATION OF hFE

RANK	A	B
RANGE	120 ~ 240	200 ~ 400

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