



**UNISONIC TECHNOLOGIES CO.,**

**2SC4672**

**NPN EPITAXIAL SILICON TRANSISTOR**

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

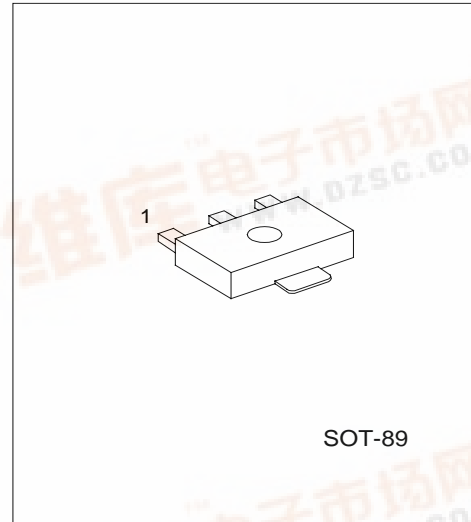
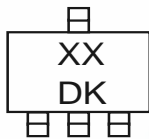
■ DESCRIPTION

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



SOT-89

\*Pb-free plating product number: 2SC4672L

■ PIN CONFIGURATION

PIN NO.	PIN NAME
1	Emitter
2	Collector
3	Base

■ ORDERING INFORMATION

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



# 2SC4672

## NPN EPITAXIAL SILICON TRANSISTOR

### ■ ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	$V_{CBO}$	60	V
Collector to Emitter Voltage	$V_{CEO}$	50	V
Emitter to Base Voltage	$V_{EBO}$	6	V
Collector Current	$I_C$	2	A
Collector Current (Pulse) (Note 1)	$I_{CP}$	5	A
Collector Dissipation	$P_C$	500	mW
Junction Temperature	$T_J$	+150	°C
Storage Temperature	$T_{STG}$	-40 ~ +150	°C

Note1: Single pulse,  $P_W=10ms$

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C = 50\mu A$	60			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C = 1mA$	50			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E = 50\mu A$	6			V
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=60V$			0.1	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=5V$			0.1	$\mu A$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C / I_B = 1A / 50mA$ (Note1)		0.1	0.35	V
DC Current Transfer Ratio	$h_{FE}$	$V_{CE}=2V, I_C = 0.5A$ (Note1)	120		400	
Transition Frequency	$f_T$	$V_{CE}=2V, I_E = -0.5A, f=100MHz$		210		MHz
Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E = 0A, f=1MHz$		25		pF

Note 1: Measured using pulse current.

### ■ CLASSIFICATION OF $h_{FE}$

RANK	A	B
RANGE	120 ~ 240	200 ~ 400

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