



# 2SC4672

## NPN SILICON TRANSISTOR

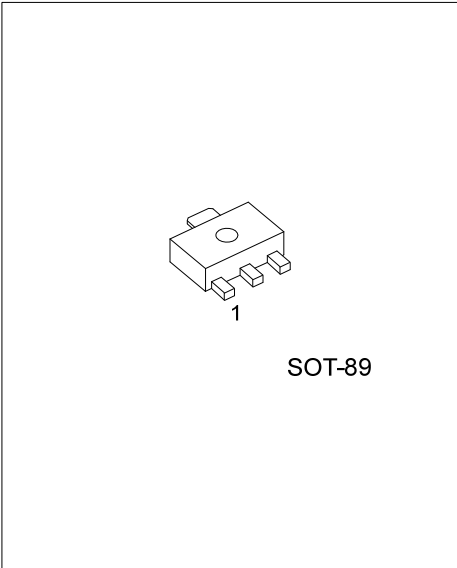
### LOW FREQUENCY TRANSISTOR (50V, 2A)

#### 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



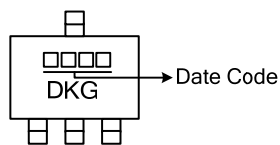
#### ORDERING INFORMATION

Order Number	Package	Pin Assignment			Packing
		1	2	3	
2SC4672G-x-AB3-R	SOT-89	B	C	E	Tape Reel

Note: Pin Assignment: B: Base C: Collector E: Emitter

<p>2SC4672G-x-AB3-R</p> <p>(1) Packing Type (2) Package Type (3) Rank (4) Green Package</p>	<p>(1) R: Tape Reel (2) AB3: SOT-89 (3) x: refer to Classification of <math>h_{FE}</math> (4) G: Halogen Free and Lead Free</p>
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#### MARKING



■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ , unless otherwise specified)

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	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-40 ~ +150	$^\circ\text{C}$

Note: 1. Single pulse,  $P_W=10\text{ms}$

2. 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	$\theta_{JA}$	250	$^\circ\text{C/W}$
Junction to Case	$\theta_{JC}$	40	$^\circ\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ , unless otherwise specified)

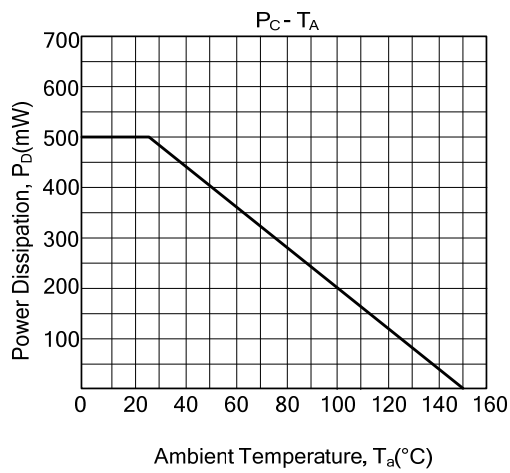
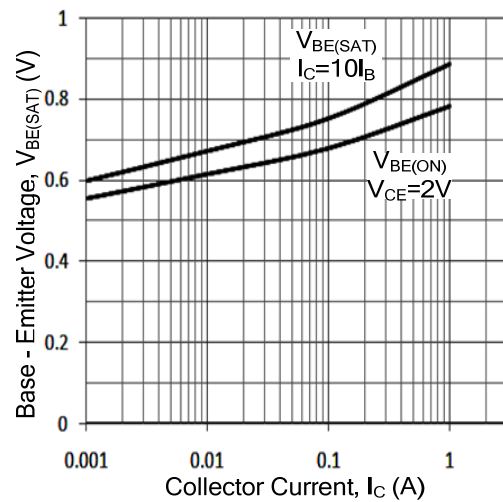
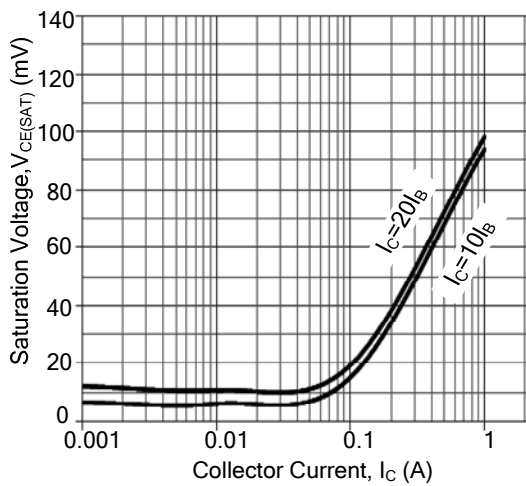
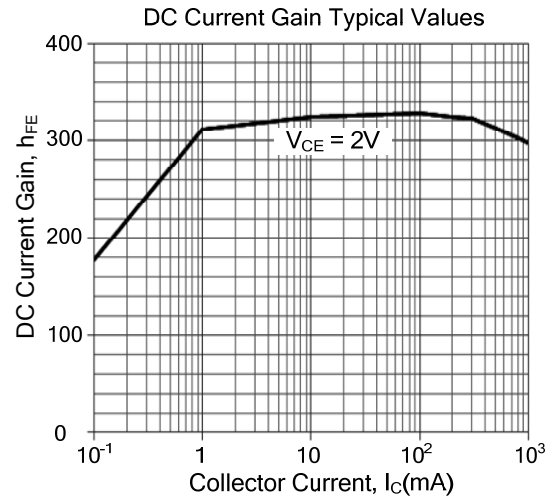
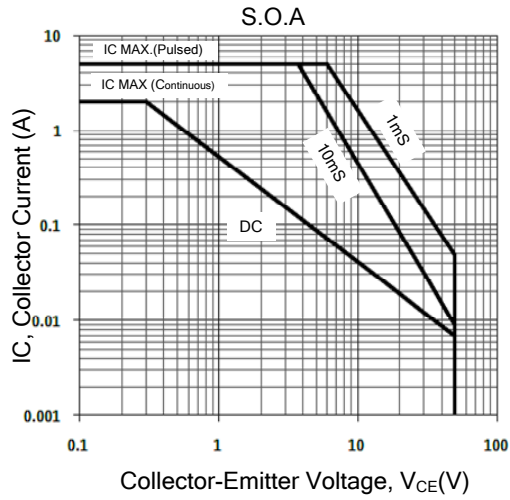
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=50\mu\text{A}$	60			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=1\text{mA}$	50			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=50\mu\text{A}$	6			V
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=60\text{V}$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

Note : Measured using pulse current.

■ CLASSIFICATION OF  $h_{FE}$

RANK	A	B
RANGE	120 ~ 240	200 ~ 400

## TYPICAL CHARACTERISTICS



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