

# 2SC4672

# Transistor, NPN

## Features

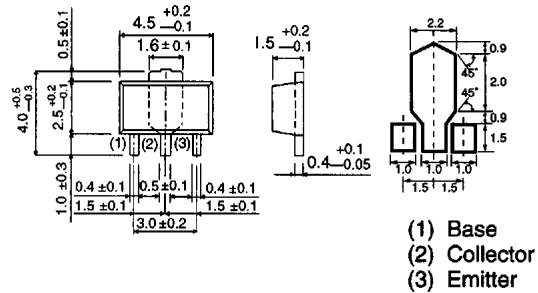
- available in MPT3 (MPT, SOT-89, SC-62) package
- package marking: 2SC4672; DK★, where ★ is  $h_{FE}$  code
- low collector saturation voltage, typically  $V_{CE(sat)} = 0.13\text{ V}$  at  $I_C/I_B = 1\text{ A}/50\text{ mA}$
- excellent current characteristics of DC current amplification factor  $h_{FE}$

## Applications

- low frequency power amplifier

## Dimensions (Units : mm)

2SC4672 (MPT3)



## Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Limits	Unit	Conditions
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	DC
		5		Single pulse, $P_W = 10\text{ ms}$
Collector dissipation	$P_C$	0.5	W	Mounted on $40 \times 40 \times 0.7\text{ mm}$ ceramic substrate
		2.0		
Junction temperature	$T_j$	150	$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-55 ~ +150	$^\circ\text{C}$	

**2SC4672** Transistor, NPN, 2SC Series

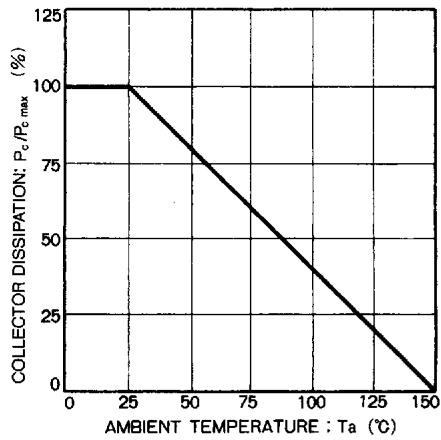
**Electrical characteristics (unless otherwise noted,  $T_a = 25^\circ\text{C}$ )**

Parameter	Symbol	Min	Typical	Max	Unit	Conditions
Collector-to-base breakdown voltage	$BV_{CBO}$	60			V	$I_C = 50 \mu\text{A}$
Collector-to-emitter breakdown voltage	$BV_{CEO}$	50			V	$I_C = 1 \text{ mA}$
Emitter-to-base breakdown voltage	$BV_{EBO}$	6			V	$I_E = 50 \mu\text{A}$
Collector cutoff current	$I_{CBO}$			0.1	$\mu\text{A}$	$V_{CB} = 60 \text{ V}$
Emitter cutoff current	$I_{EBO}$			0.1	$\mu\text{A}$	$V_{EB} = 5 \text{ V}$
DC current gain	$h_{FE}$	82		270		$V_{CE} = 2 \text{ V}$ , $I_C = 0.5 \text{ A}$ , single pulse
Collector-to-emitter saturation voltage	$V_{CE(sat)}$		0.13	0.35	V	$I_C/I_B = 1 \text{ A}/50 \text{ mA}$ , single pulse
Transition frequency	$f_T$		210		MHz	$V_{CB} = 2 \text{ V}$ , $I_E = -0.5 \text{ A}$ , $f = 100 \text{ MHz}$ , single pulse
Output capacitance	$C_{ob}$		25		pF	$V_{CB} = 10 \text{ V}$ , $I_E = 0 \text{ A}$ , $f = 1 \text{ MHz}$

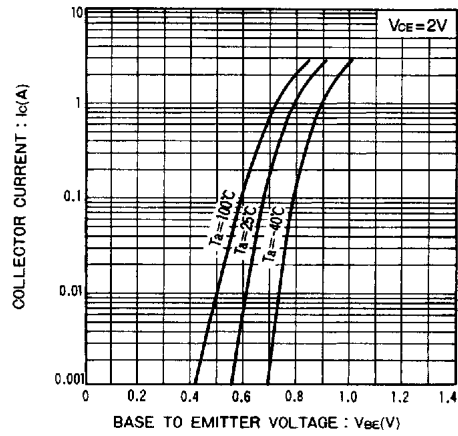
**$h_{FE}$  rankings**

Item	P	Q
$h_{FE}$	82 ~ 180	120 ~ 270

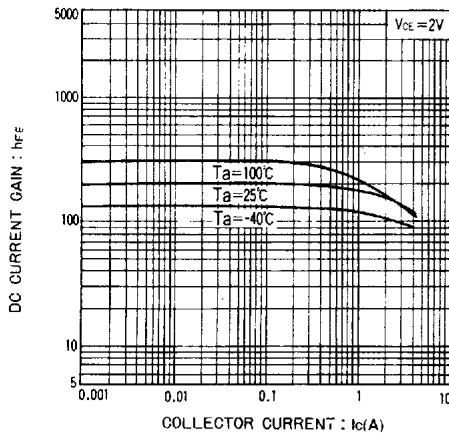
**Electrical characteristic curves**



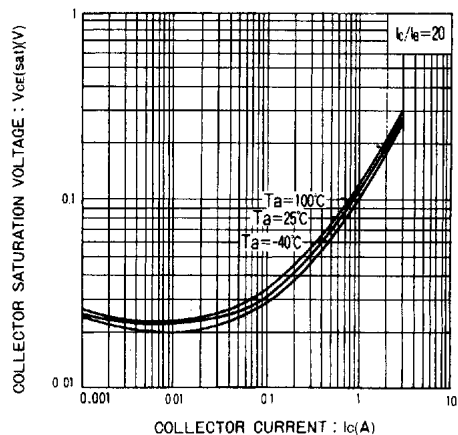
**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**

**Ordering information**

Package	Tape
Code	T100
Basic order quantity	1000
2SC4672	★
★ = Standard, ☆ = Semi-standard, * = Special order	