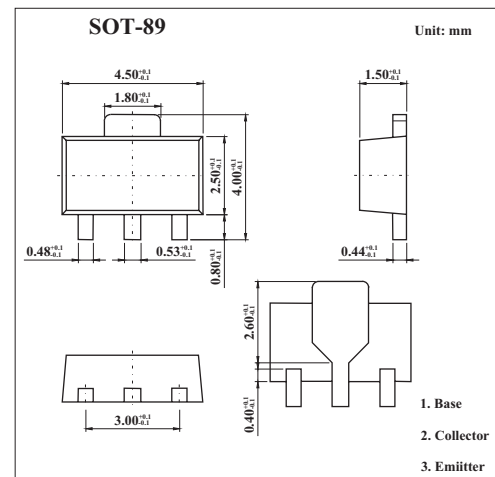


## Low Frequency Transistor

## 2SC4672

## ■ Features

- Low Saturation Voltage, Typically  $V_{CE(sat)} = 0.1V$  at  $I_C/I_B = 1A/50mA$
- Excellent DC Current Gain Characteristics
- Complements the 2SA1797

■ Absolute Maximum Ratings  $T_a = 25^\circ C$ 

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	60	V
Collector-Emitter Voltage	$V_{CEO}$	50	V
Emitter-Base Voltage	$V_{EBO}$	6	V
Collector Current	$I_C$	3	A (DC)
		6	A (Pulse) *1
Collector Power Dissipation	$P_C$	0.5	W
		2 *2	
Junction temperature	$T_j$	150	$^\circ C$
Storage temperature Range	$T_{stg}$	-55 to +150	$^\circ C$

\*1 Single Pulse,  $P_w = 10ms$

\*2 40 x 40 x  $^t$  0.7mm Ceramic board

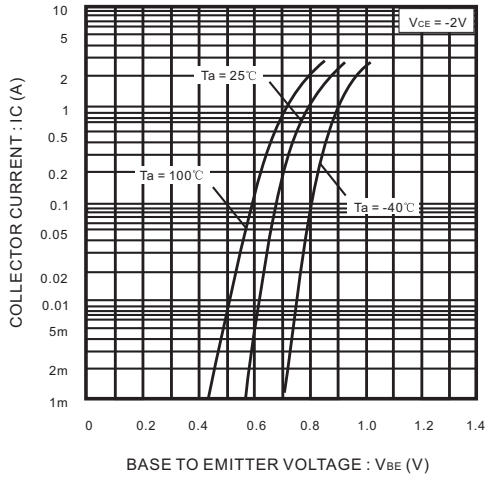
■ Electrical Characteristics  $T_a = 25^\circ C$ 

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = 60V$			0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = 5V$			0.1	$\mu A$
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 50\mu A$	60			V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1mA$	50			V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 50\mu A$	6			V
DC Current Transfer Ratio	$h_{FE}$	$V_{CE} = 2V, I_C = 0.5A$ *	82		270	
		$V_{CE} = 2V, I_C = 1.5A$ *	45			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 1A, I_B = 50mA$ *		0.13	0.35	V
Transistion frequency	$f_T$	$V_{CE} = 2V, I_E = -0.5A, f = 100MHz$		210		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = 10V, I_E = 0, f = 1MHz$		25		pF

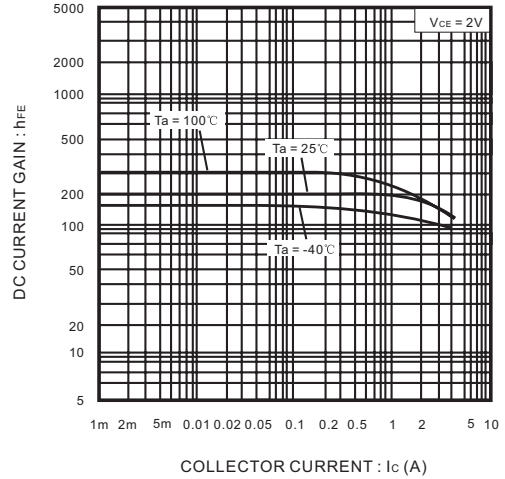
\* Measured using pulse current.

# 2SC4672

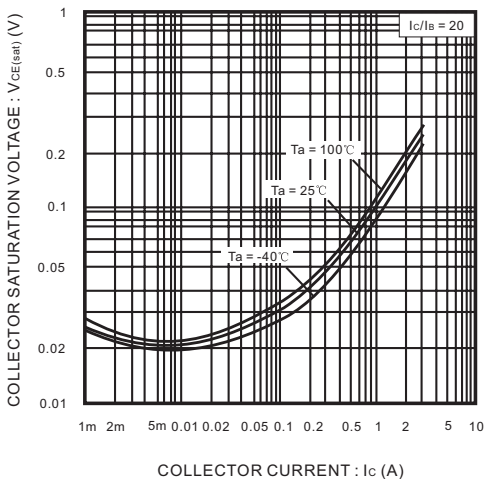
## Electrical Characteristics Curves



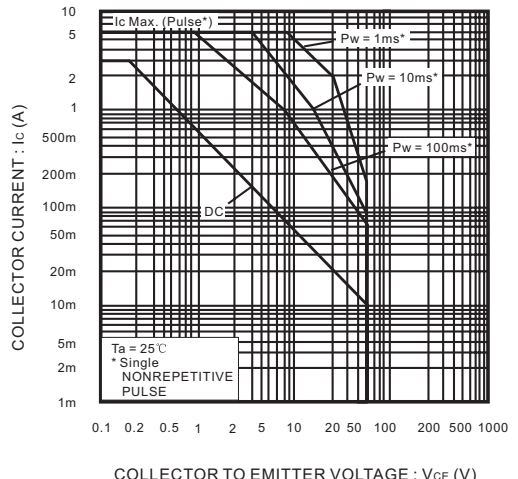
BASE TO EMITTER VOLTAGE :  $V_{BE}$  (V)  
Grounded emitter propagation characteristics



COLLECTOR CURRENT :  $I_c$  (A)  
DC current gain vs. Collector current



COLLECTOR CURRENT :  $I_c$  (A)  
Collector-emitter saturation voltage vs. Collector current



COLLECTOR TO EMITTER VOLTAGE :  $V_{CE}$  (V)  
Safe Operating area

## hFE Classification

Marking	DK	
Rank	P	Q
hFE	82 ~ 180	120 ~ 270