

# Low Frequency Transistor (50V, 2A)

## 2SC4672

### ●Features

- 1) Low saturation voltage, typically  $V_{CE(sat)} = 0.1V$  at  $I_C/I_B = 1A/50mA$ .
- 2) Excellent DC current gain characteristics.
- 3) Complements the 2SA1797.

### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	$V_{CB0}$	60	V
Collector-emitter voltage	$V_{CE0}$	50	V
Emitter-base voltage	$V_{EB0}$	6	V
Collector current	$I_C$	2	A (DC)
		5	A (Pulse) *
Collector power dissipation	$P_C$	0.5	W
Junction temperature	$T_J$	150	°C
Storage temperature	$T_{stg}$	-55~+150	°C

\* Single pulse,  $P_w=10ms$

### ●Packaging specifications and hFE

Type	2SC4672
Package	MPT3
hFE	PQ
Marking	DK *
Code	T100
Basic ordering unit (pieces)	1000

\* Denotes hFE

### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	$BV_{CB0}$	60	-	-	V	$I_C=50\mu A$
Collector-emitter breakdown voltage	$BV_{CE0}$	50	-	-	V	$I_C=1mA$
Emitter-base breakdown voltage	$BV_{EB0}$	6	-	-	V	$I_E=50\mu A$
Collector cutoff current	$I_{CBO}$	-	-	0.1	$\mu A$	$V_{CB}=60V$
Emitter cutoff current	$I_{EBO}$	-	-	0.1	$\mu A$	$V_{EB}=5V$
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	0.1	0.35	V	$I_C/I_B=1A/50mA$ *
DC current transfer ratio	hFE	82	-	270	-	$V_{CE}=2V, I_C=0.5A$ *
Transition frequency	$f_T$	-	210	-	MHz	$V_{CE}=2V, I_E=-0.5A, f=100MHz$
Output capacitance	$C_{ob}$	-	25	-	pF	$V_{CB}=10V, I_E=0A, f=1MHz$

\*Measured using pulse current.