Low Frequency Transistor (50V, 3A) 2SC4672

● Features

- 1) Low saturation voltage, typically Vce (sat) =0.1V at Ic/IB =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	Vсво	60	V	
Collector-emitter voltage	VCEO	50	V	
Emitter-base voltage	VEBO	6	V	
Collector current	Ic	3	A (DC)	
		6	A (Pulse) *1	
Collector power dissipation	Pc	0.5	w	
		2 *2	VV	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

●Packaging specifications and hFE

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

^{*} Denotes hre

hre values are classified as follows:

Item	Р	Q	
hfE	82 to 180	120 to 270	

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	60	-	_	V	Ic=50μA	
Collector-emitter breakdown voltage	BVceo	50	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВУево	6	-	-	V	Iε=50μA	
Collector cutoff current	Ісво	-	-	0.1	μΑ	Vcb=60V	
Emitter cutoff current	ІЕВО	-	-	0.1	μΑ	V _{EB} =5V	
Collector-emitter saturation voltage	VCE(sat)	-	0.13	0.35	V	Ic/I _B =1A/50mA	*
DC current transfer ratio	hFE1	82	-	270	-	Vce=2V, Ic=0.5A	*
	h _{FE} 2	45	-	_	-	Vce=2V, Ic=1.5A	*
Transition frequency	f⊤	-	210	-	MHz	Vce=2V, Ie=-0.5A, f=100MHz	
Output capacitance	Cob	-	25	_	pF	Vcb=10V, Ie=0A, f=1MHz	

^{*}Measured using pulse current.

^{*1} Single pulse, Pw=10ms *2 40×40×[†]0.7mm Ceramic board

•Electrical characteristics curves

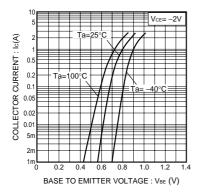


Fig.1 Grounded emitter propagation characteristics

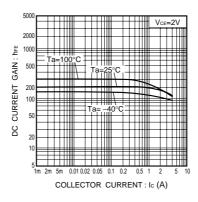


Fig.2 DC current gain vs. collector current

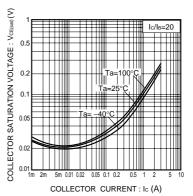
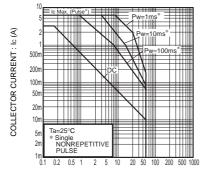


Fig.3 Collector-emitter saturation voltage vs. collector current



COLLECTOR TO EMITTER VOLTAGE : Vce (V)

Fig.4 Safe Operating area

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