Transistors

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		
	lc	3	A (DC)		
Collector current		6	A (Pulse) *1		
Collector power dissipation	Po	0.5	W		
	10	2 *2	vv		
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		

*1 Single pulse, Pw=10ms *2 40×40×^t0.7mm Ceramic board

Packaging specifications and hre

2SC4672
MPT3
PQ
DK *
T100
1000

* Denotes hFE

hre values are classified as follows:

Item	Р	Q	
hfe	82 to 180	120 to 270	

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВVсво	60	-	-	V	Ic=50μA	
Collector-emitter breakdown voltage	BVCEO	50	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВVево	6	-	-	V	Ιε=50μΑ	
Collector cutoff current	Ісво	-	-	0.1	μA	Vcb=60V	
Emitter cutoff current	Іево	-	-	0.1	μA	VEB=5V	
Collector-emitter saturation voltage	VCE(sat)	-	0.13	0.35	V	Ic/IB=1A/50mA	*
DC current transfer ratio hFE1 hFE2	hfe1	82	-	270	-	Vce=2V, Ic=0.5A	*
	45	-	-	-	VCE=2V, IC=1.5A	*	
Transition frequency	fт	-	210	-	MHz	Vce=2V, Ie=-0.5A, f=100MHz	
Output capacitance	Cob	-	25	-	pF	Vcb=10V, IE=0A, f=1MHz	

*Measured using pulse current.



Transistors

•Electrical characteristics curves

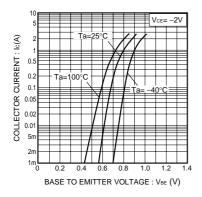


Fig.1 Grounded emitter propagation

characteristics

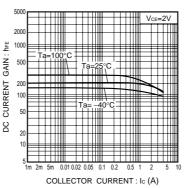


Fig.2 DC current gain vs. collector current

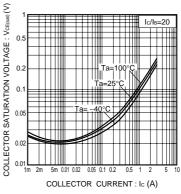
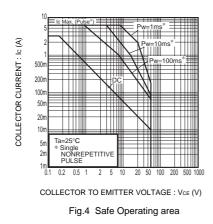


Fig.3 Collector-emitter saturation voltage vs. collector current



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Appendix1-Rev2.0

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