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	lc	3	A (DC)	
		6	A (Pulse) *1	
Collector power dissipation	ector power dissipation Pc -	0.5	W	
Collector power dissipation		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

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

* Denotes hFE

hre values are classified as follows:

Item	Р	Q
hfe	82 to 180	120 to 270

•Electrical characteristics (Ta=25°C)

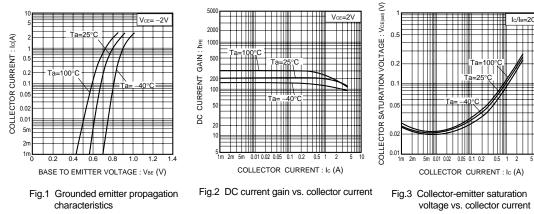
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВVсво	60	-	-	V	Ic=50μA	
Collector-emitter breakdown voltage	BVCEO	50	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВVево	6	-	-	V	Ιε=50μΑ	
Collector cutoff current	Ісво	_	-	0.1	μA	Vcb=60V	
Emitter cutoff current	Іево	_	-	0.1	μΑ	VEB=5V	
Collector-emitter saturation voltage	VCE(sat)	_	0.13	0.35	V	Ic/IB=1A/50mA	*
DC current transfer ratio	hfe1	82	-	270	-	Vce=2V, Ic=0.5A	*
	hfe2	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	

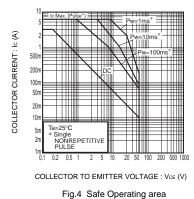
*Measured using pulse current.

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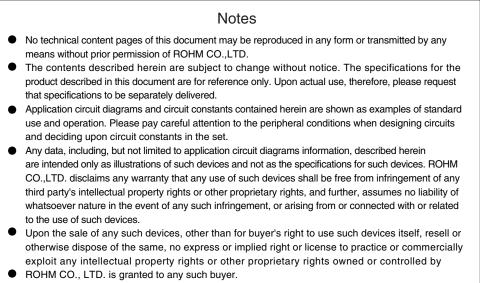
Transistors

Electrical characteristics curves





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• Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

It is our top priority to supply products with the utmost quality and reliability. However, there is always a chance of failure due to unexpected factors. Therefore, please take into account the derating characteristics and allow for sufficient safety features, such as extra margin, anti-flammability, and fail-safe measures when designing in order to prevent possible accidents that may result in bodily harm or fire caused by component failure. ROHM cannot be held responsible for any damages arising from the use of the products under conditions out of the range of the specifications or due to non-compliance with the NOTES specified in this catalog.

Thank you for your accessing to ROHM product informations. More detail product informations and catalogs are available, please contact your nearest sales office.

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Appendix1-Rev2.0