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)	
	IC IC	6	A (Pulse) *1	
Collector power dissipation	Pc	0.5	W	
	10	2 *2		
Junction temperature	Tj 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

hre values are classified as follows:

Item	Р	Q	
hfe	82 to 180	120 to 270	

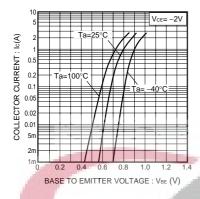
●Electrical characteristics (Ta=25°C)

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 *
DC current transfer ratio	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



5000 Vc=2V

2000 Ta=100°C Ta=26°C

1000 Ta=-40°C

1000 Ta--40°C

1

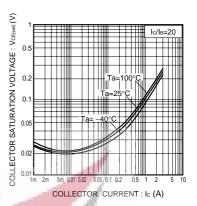
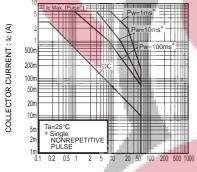


Fig.1 Grounded emitter propagation characteristics

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



Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any
 means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the
 product described in this document are for reference only. Upon actual use, therefore, please request
 that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard
 use and operation. Please pay careful attention to the peripheral conditions when designing circuits
 and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or otherwise dispose of the same, no express or implied right or license to practice or commercially exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- 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.

ELECTRONIC

Thank you for your accessing to ROHM product informations.

More detail product informations and catalogs are available, please contact your nearest sales office.

ROHM Customer Support System

THE AMERICAS / EUROPE / ASIA / JAPAN

www.rohm.com

Contact us : webmaster@rohm.co.jp

Copyright © 2008 ROHM CO.,LTD.

ROHM CO., LTD. 21 Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan

an TEL:+81-75-311-2121 FAX:+81-75-315-0172



Appendix1-Rev2.0

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:



Published by WWW.\$KYTECH.ir