Low frequency amplifier 2SD2671

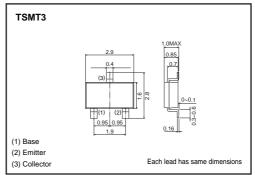
Application

Low frequency amplifier Driver

● Features

1) A collector current is large. 2) V_{CE(sat)}: max. 370mV At $Ic=1.5A/I_B=75mA$

●External dimensions (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol Limits		Unit
Collector-base voltage	Vсво	30	V
Collector-emitter voltage	Vceo	30	V
Emiter-base voltage	Vево	6	V
Collector current	Ic	2	Α
Collector current	Іср	4	A*1
Dawar dissination	D-	500	mW
Power dissipation	Pc	1*2	W
Junction temperature	Tj	150	°C
Range of storage temperautre	Tstg	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltae	ВУсво	30	_	-	V	Ic=10μA
Collector-emitter breakdown voltae	BVceo	30	_	-	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	6	_	-	V	Iε=10μA
Collector cutoff current	Ісво	_	_	100	nA	Vcb=30V
Emitter cutoff current	ІЕВО	_	_	100	nA	V _{EB} =6V
Collector-emitter saturation voltage	VCE(sat)	_	180	370	mV	Ic=1.5A, Iв=75mA
DC current gain	hfe	270	_	680	_	Vce=2V, Ic=200mA*
Transition frequency	f⊤	_	280	-	MHz	Vce=2V, Ie=-200mA, f=100MHz*
Collector output capacitance	Cob	_	20	_	pF	Vcb=10V, IE=0A, f=1MHz

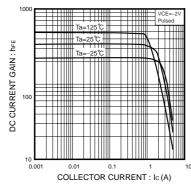
^{*} Pulsed

^{*1} Single pluse, Pw=1ms *2 Mounted on a 25×25× to.8mm Ceramic substrate

Packaging specifications

	Package	Taping
Туре	Code	TL
	Basic ordering unit (Pieces)	3000
2SD2671		0

•Electrical characteristic curves



COLLECTOR CURRENT : IC (A)

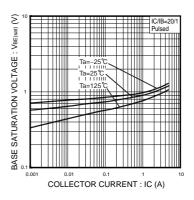


Fig.1 DC current gain vs. collector current

Fig.2 Collector-emitter saturation voltage base-emitter saturation voltage vs. collector current

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

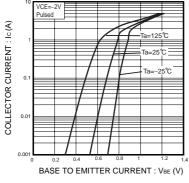


Fig.4 Grounded emitter propagation characteristics

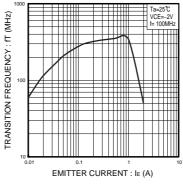


Fig.5 Gain bandwidth product vs. emitter current

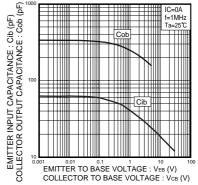


Fig.6 Collector output chapacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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 with 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.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.



Mouser Electronics

Authorized Distributor

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

ROHM Semiconductor: 2SD2671TL