

High frequency amplifier transistor, RF switching (6V, 50mA)

2SC4774 / 2SC4713K

Features

Very low output-on resistance (Ron).
Low capacitance.

Absolute maximum ratings (Ta=25°C)

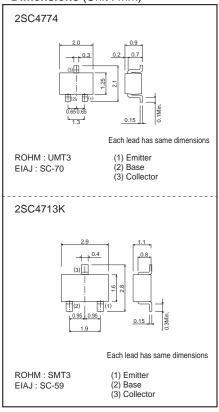
		,	
Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	12	V
Collector-emitter voltage	VCEO	6	V
Emitter-base voltage	Vebo	3	V
Collector current	lc	50	mA
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Packaging specifications and hFE

Туре	2SC4774	2SC4713K
Package	UMT3	SMT3
hfe	S	S
Marking	BM*	BM*
Code	T106	T146
Basic ordering unit (pieces)	3000	3000

*Denotes hre

•Dimensions (Unit : mm)

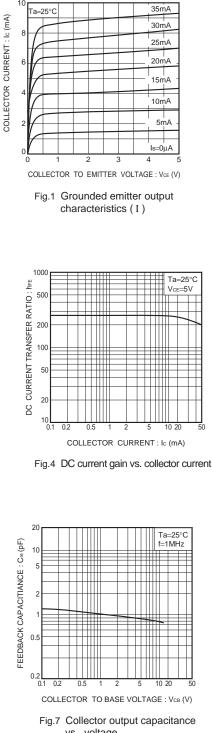


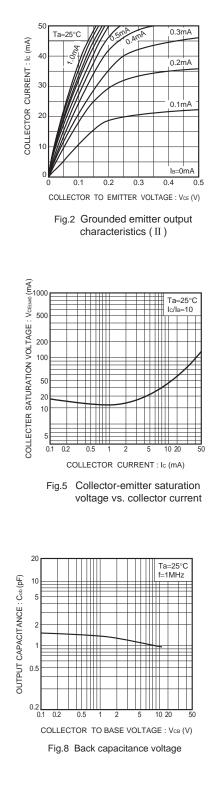
•Electrical characteristics (Ta=25°C)

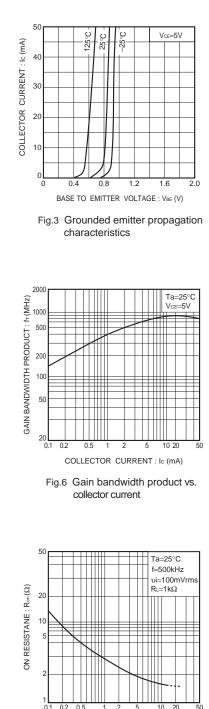
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	12	-	-	V	Ic=10µA	
Collector-emitter breakdown voltage	BVCEO	6	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВVево	3	-	-	V	Iε=10μA	
Collector cutoff current	Ісво	-	-	0.5	μΑ	Vcb=10V	
Emitter cutoff current	Іево	-	-	0.5	μA	VEB=2V	
Collector-emitter saturation voltage	VCE(sat)	-	-	0.3	V	Ic/IB=10mA/1mA	
DC current transfer ratio	hfe	180	-	560	-	Vce/Ic=5V/5mA	
Transition frequency	fт	300	800	-	MHz	Vce=5V, Ie=-10mA, f=200MHz	
Output capacitance	Cob	-	1	1.7	pF	Vcb=10V, IE=0A, f=1MHz	
Output-on resistance	Ron	-	2	-	Ω	IB=3mA, VI=100mVrms, f=500kHz	

This product might cause chip aging and breakdown under the large electrified environment. Please consider to design ESD protection circuit.

Electrical characteristic curves





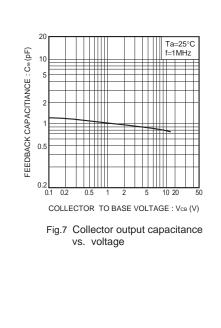




50

02

Fig.9 Output-on resistance vs. base current



	Notes
	g or reproduction of this document, in part or in whole, is permitted without the ROHM Co.,Ltd.
The conten	t specified herein is subject to change for improvement without notice.
"Products")	It specified herein is for the purpose of introducing ROHM's products (hereinafte). If you wish to use any such Product, please be sure to refer to the specifications be obtained from ROHM upon request.
illustrate th	of application circuits, circuit constants and any other information contained herein e standard usage and operations of the Products. The peripheral conditions mus to account when designing circuits for mass production.
However, s	was taken in ensuring the accuracy of the information specified in this document should you incur any damage arising from any inaccuracy or misprint of sucl , ROHM shall bear no responsibility for such damage.
examples of implicitly, a other partie	cal information specified herein is intended only to show the typical functions of and of application circuits for the Products. ROHM does not grant you, explicitly on ny license to use or exercise intellectual property or other rights held by ROHM and es. ROHM shall bear no responsibility whatsoever for any dispute arising from the technical information.
equipment	cts specified in this document are intended to be used with general-use electronic or devices (such as audio visual equipment, office-automation equipment, commu vices, electronic appliances and amusement devices).
The Produc	ts specified in this document are not designed to be radiation tolerant.
	M always makes efforts to enhance the quality and reliability of its Products, a ay fail or malfunction for a variety of reasons.
against the failure of ar shall bear r	sure to implement in your equipment using the Products safety measures to guard possibility of physical injury, fire or any other damage caused in the event of the ny Product, such as derating, redundancy, fire control and fail-safe designs. ROHM no responsibility whatsoever for your use of any Product outside of the prescribed of in accordance with the instruction manual.
system whi may result instrument fuel-contro any of the F	cts are not designed or manufactured to be used with any equipment, device of ich requires an extremely high level of reliability the failure or malfunction of which in a direct threat to human life or create a risk of human injury (such as a medica , transportation equipment, aerospace machinery, nuclear-reactor controller ller or other safety device). ROHM shall bear no responsibility in any way for use of Products for the above special purposes. If a Product is intended to be used for any al purpose, please contact a ROHM sales representative before purchasing.
be controlle	d to export or ship overseas any Product or technology specified herein that may ed under the Foreign Exchange and the Foreign Trade Law, you will be required to ense or permit under the Law.



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

ROHM Customer Support System

http://www.rohm.com/contact/

Mouser Electronics

Authorized Distributor

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

ROHM Semiconductor: 2SC4713KT146S 2SC4713KT146R