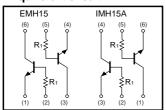
General purpose (dual digital transistors) EMH15 / IMH15A

Features

1) Two DTC144T chips in a EMT or SMT package.

●Equivalent circuit



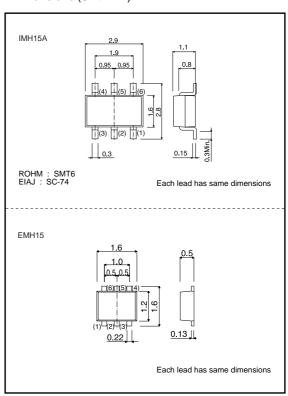
● Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	50	V	
Collector-emitter voltage		Vceo	50	V	
Emitter-base voltage		Vево	5	V	
Collector current		lc	100	mA	
Collector power dissipation	EMH15	Pc	150(TOTAL)	mW	
	IMH15A	10	300(TOTAL)		
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

Package, marking, and packaging specifications

Туре	EMH15	IMH15A
Package	EMT6	SMT6
Marking	H15	H15
Code	T2R	T110
Basic ordering unit (pieces)	8000	3000

●Dimensions (Unit:mm)



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	50	-	-	V	Ic=50μA
Collector-emitter breakdown voltage	BVceo	50	-	-	V	Ic=1mA
Emitter-base breakdown voltage	ВУЕВО	5	-	-	V	Iε=50μA
Collector cutoff current	Ісво	-	-	0.5	μΑ	Vcb=50V
Emitter cutoff current	Ієво	-	-	0.5	μΑ	V _{EB} =4V
Collector-emitter saturation voltage	VcE(sat)	-	-	0.3	V	Ic/I _B =10mA/1mA
DC current transfer ratio	hre	100	250	600	-	Vce/Ic=5V/1mA
Transition frequency	f⊤	-	250	-	MHz	Vce=10V, Ie= -5mA, f=100MHz *
Input resistance	R ₁	32.9	47	61.1	kΩ	_

^{*}Transition frequency of the device

•Electrical characteristics curves

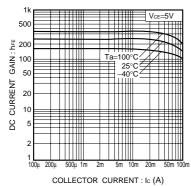


Fig.1 DC current gain vs. collector current

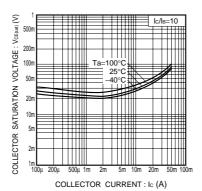


Fig.2 Collector-emitter saturation voltage vs. collector current

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.

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 / EUPOPE / ASIA / JAPAN

www.rohm.com

Contact us : webmaster@rohm.co.jp

Copyright © 2007 ROHM CO.,LTD.

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

FAX: +81-75-315-0172

Appendix1-Rev2.0

TEL:+81-75-311-2121

