

Power management (dual transistors)

VT6X2

Structure

NPN silicon epitaxial planar transistor

Features

1) Very small package with two transistors.

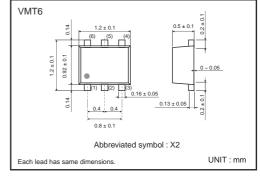
Applications

Switch, LED driver

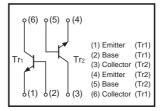
Packaging specifications

	Package	Taping
	Code	T2R
Туре	Basic ordering unit (pieces)	8000
VT6X2		0

•Dimensions (Unit : mm)



Inner 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			
		Icp *1	200	mA
Dewer discipation	Total	Pn *2	150	mW
Power dissipation	Element	ĨĎ	120	mW
Junction temperature		Tj	150	°C
Range of storage temperature		Tstg	-55 to +150	°C

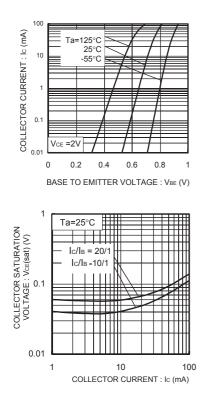
*1 Pw=1mS Single pulse

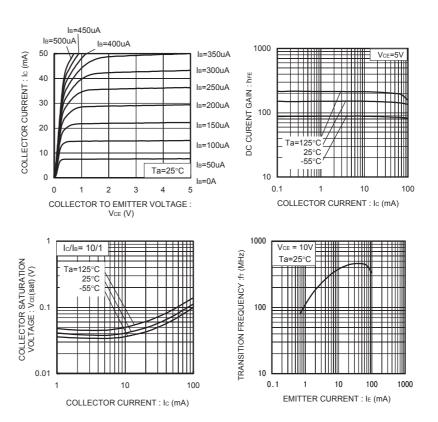
*2 Each terminal mounted on a recommended land

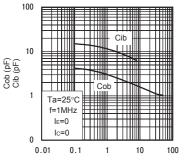
•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVCEO	50	-	-	V	Ic=1mA
Collector-base breakdown voltage	ВУсво	50	-	-	V	Ic=50μA
Emitter-base breakdown voltage	ВУево	5	-	-	V	Ιε=50μΑ
Collector cut-off current	Ісво	-	-	0.1	μA	Vcb=50V
Emitter cut-off current	Іево	-	-	0.1	μA	Veb=5V
Collector-emitter saturation voltage	VCE(sat)	-	0.10	0.30	V	Ic=50mA, Iв=5mA
DC current gain	hfe	120	-	560	-	Vce=6V, Ic=1mA
Transition frequency	f⊤	-	350	-	MHz	Vce=10V, Ie=-10mA, f=100MHz
Output capacitance	Cob	_	1.6	_	pF	Vcb=10V, IE=0A, f=1MHz

•Electrical characteristics curves







COLLECTOR TO BASE VOLTAGE : V_{CB} (V) EMITTER TO BASE VOLTAGE : $V_{EB}(V)$

	Notes
	ng or reproduction of this document, in part or in whole, is permitted without the f ROHM Co.,Ltd.
The conte	nt specified herein is subject to change for improvement without notice.
"Products	nt 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 t	of application circuits, circuit constants and any other information contained herein he standard usage and operations of the Products. The peripheral conditions mus nto account when designing circuits for mass production.
However,	e 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 n, ROHM shall bear no responsibility for such damage.
examples implicitly, other part	ical 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 o any license to use or exercise intellectual property or other rights held by ROHM and ies. ROHM shall bear no responsibility whatsoever for any dispute arising from the h technical information.
equipmen	icts specified in this document are intended to be used with general-use electronic t or devices (such as audio visual equipment, office-automation equipment, commu evices, electronic appliances and amusement devices).
The Produ	cts specified in this document are not designed to be radiation tolerant.
	HM always makes efforts to enhance the quality and reliability of its Products, a ay fail or malfunction for a variety of reasons.
against th failure of a shall bear	sure to implement in your equipment using the Products safety measures to guard e possibility of physical injury, fire or any other damage caused in the event of the any 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 not in accordance with the instruction manual.
system wi may result instrument fuel-contro any of the	acts are not designed or manufactured to be used with any equipment, device on hich requires an extremely high level of reliability the failure or malfunction of which t in a direct threat to human life or create a risk of human injury (such as a medica t, transportation equipment, aerospace machinery, nuclear-reactor controller oller or other safety device). ROHM shall bear no responsibility in any way for use o Products for the above special purposes. If a Product is intended to be used for an ial purpose, please contact a ROHM sales representative before purchasing.
be control	nd to export or ship overseas any Product or technology specified herein that may led under the Foreign Exchange and the Foreign Trade Law, you will be required to cense 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/