

Power management (dual transistors)

VT6X11

Structure

NPN silicon epitaxial planar transistor

Features

1) Very small package with two transistors.

2) Suitable for current mirror circuits.

Applications

Current mirror circuits

Packaging specifications

	Package	Taping
	Code	T2R
Туре	Basic ordering unit (pieces)	8000
VT6X11		0

• Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Collector-base voltage		Vсво	20	V
Collector-emitter voltage		Vceo	20	V
Emitter-base voltage		Vево	5	V
Collector current		lc	200	mA
		Icp *1	400	mA
Dewer dissinction	Total	Pn *2	150	mW
Power dissipation	Element	10	120	mW
Junction temperature		Tj	150	°C
Range of storage temperature		Tstg	-55 to +150	°C

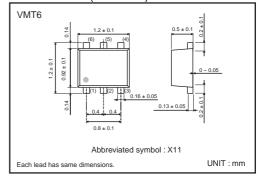
*1 Pw=1mS Single pulse

*2 Each terminal mounted on a recommended land

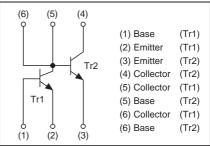
•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVCEO	20	-	-	V	Ic=1mA
Collector-base breakdown voltage	ВУсво	20	-	-	V	Ic=50μA
Emitter-base breakdown voltage	ВУево	5	-	-	V	Ιε=50μΑ
Collector cut-off current	Ісво	-	-	0.1	μA	Vcb=20V
Emitter cut-off current	Іево	-	-	0.1	μA	Veb=5V
Collector-emitter saturation voltage	VCE(sat)	-	0.12	0.30	V	Ic=100mA, Iв=10mA
DC current gain	hfe	120	-	560	-	Vce=2V, Ic=1mA
DC current gain ratio	hfe (Tr1) / hfe (Tr2)	0.9	-	1.1	-	Vce=2V, Ic=1mA
Transition frequency	fт	-	400	-	MHz	Vce=10V, Ie=-10mA, f=100MHz
Output capacitance	Cob	_	2	_	pF	Vcb=10V, IE=0A, f=1MHz

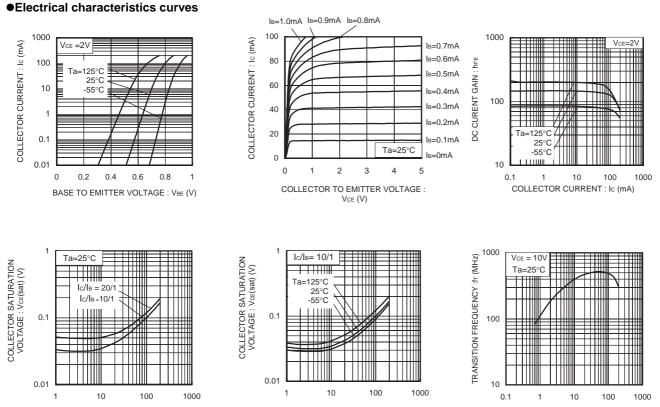
•Dimensions (Unit : mm)



Inner circuit

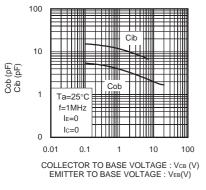


EMITTER CURRENT : IE (mA)



COLLECTOR CURRENT : Ic (mA)

COLLECTOR CURRENT : Ic (mA)



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