PRELIMINARY

Notice: This is not a final specification Some parametric are subject to change.

RT3C77M

 $\begin{array}{c} {\bf Composite\ Transistor} \\ {\bf For\ General\ Purpose\ High\ Current\ Drive\ Application} \\ {\bf Silicon\ NPN\ Epitaxial\ Type} \end{array}$

DESCRIPTION

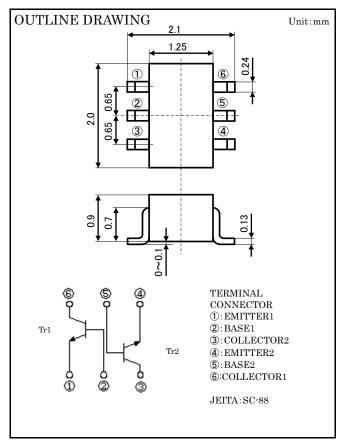
RT3C77M is compound transistor built with two 2SC6046 chips in SC-88 package.

FEATURE

- High collector current
- ●Low collector to emitter saturation voltage
- Each transistor elements are independent
- Mini package for easy mounting

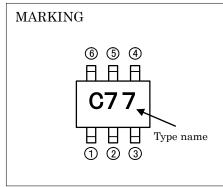
APPLICATION

For switching application, small type motor drive application



MAXIMUM RATING (Ta=25°C) (Tr1, Rr2)

SYMBOL	PARAMETER	RATING	UNIT
VCEO	Collector to Emitter voltage	40	V
Vcbo	Collector to Base voltage	75	V
Vebo	Emitter to Base voltage	6	V
Ic	Collector current	600	mA
Рт	Total dissipation	200	mW
$T_{\rm j}$	Junction temperature	+150	°C
$T_{ m stg}$	Storage temperature	-55~+150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1, Rr2)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter breakdown voltage	Ic=1mA,IB=0	40	1	_	V
V(BR)CBO	Collector to Base breakdown voltage	Ic=10μA,IE=0	75	_	_	V
V(BR)EBO	Emitter to Base breakdown voltage	IE=10μA,IC=0	6	ı	_	V
Ісво	Collector cut off current	Vcb=60V,IE=0	-	_	0.1	μΑ
IEBO	Emitter cut off current	VEB=3V,IC=0	_	_	0.1	μΑ
hfe	DC forward current gain	Vce=10V,Ic=150mA	100	_	300	-
VCE(sat)	Collector to Emitter saturation voltage	Ic=150mA,I _B =15mA	_	_	0.3	V
VBE(sat)	Base to Emitter saturation voltage	Ic=150mA,I _B =15mA	0.6	_	1.2	V
fT	Gain band width product	Vce=20V,Ie=-50mA,f=100MHz	_	250	_	MHz
Cob	Collector output capacitance	Vcb=10V,f=1MHz	_	_	8	pF

Keep safety first in your circuit designs!

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