# **PRELIMINARY**

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

# RT3C77M

Composite Transistor
For General Purpose High Current Drive Application
Silicon NPN Epitaxial Type

#### DESCRIPTION

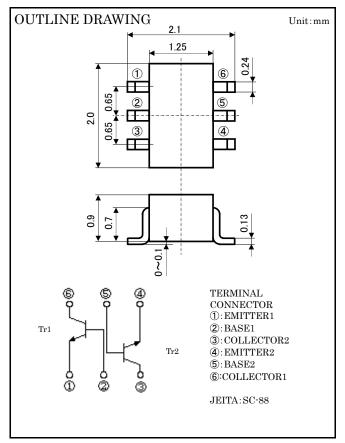
RT3C77M is compound transistor built with two 2SC6046 chips in SC-88 package.

#### **FEATURE**

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

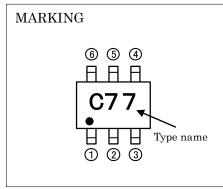
## APPLICATION

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	
Tj	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	Typ	Max	Unit
V(BR)CEO	Collector to Emitter breakdown voltage	Ic=1mA,I <sub>B</sub> =0	40	_	_	V
V(BR)CBO	Collector to Base breakdown voltage	Ic=10 μ A,IE=0	75	_	_	V
V(BR)EBO	Emitter to Base breakdown voltage	IE=10 μ A,IC=0	6	_	_	V
Ісво	Collector cut off current	Vcb=60V,IE=0	_	_	0.1	μΑ
Іево	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,IB=15mA	_	_	0.3	V
VBE(sat)	Base to Emitter saturation voltage	Ic=150mA,IB=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



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