RT3C88M

For high voltage switch Silicon NPN epitaxial type dual transistor

DESCRIPTION

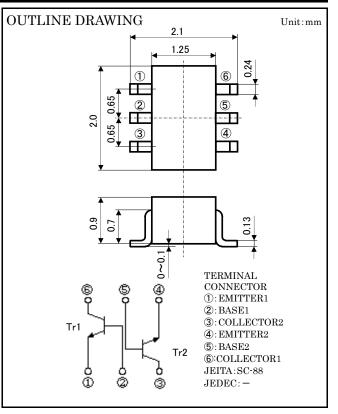
RT3C88M is Silicon NPN epitaxial type dual transistor. By using this transistor it is possible to reduce the size of the set, greatly reduce product and man-hours.

FEATURE

- ●High VCEO VCEO=160V
- •High direct current amplification factor
- Collector saturation voltage is low VCE (sat) = 0.15 V (maximum)

APPLICATION

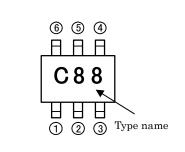
For high voltage switch.



MAXIMUM RATING (Ta=25°C) (Tr1, Tr2.)

SYMBOL	PARAMETER	RATING	UNIT	
VCBO	Collector to Base voltage	180	V	
VEBO	Emitter to Base voltage	6	V	
VCEO	Collector to Emitter voltage	160	V	
ICM	Peak collector current	200	mA	
IC	Collector current	100	mA	
\mathbf{PT}	Total dissipation	200	mW	
Tj	Junction temperature	+150	°C	
Tstg	Storage temperature	-55~+150	°C	

MARKING



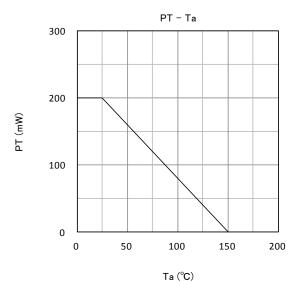
ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1, Tr2.)

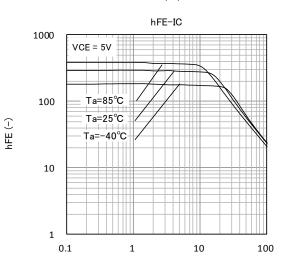
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			
			MIN	TYP	MAX	UNIT
V(BR)CBO	C to B breakdown voltage	IC=100µA, IE=0A	180	_	-	V
V(BR)EBO	E to B breakdown voltage	IE=10μA, IC=0A	6	—		V
V(BR)CEO	C to E breakdown voltage	IC=1mA, RBE=∞	160	_	-	V
ICBO	Collector cut off current	VCB=120V, IE =0A	—	—	100	nA
IEBO	Emitter cut off current	VEB=4V, IC=0A	-	-	100	nA
hFE1	DC forward current gain1	VCE=5V, IC=1mA	150	_	1	_
hFE2	DC forward current gain2	VCE=5V, IC=10mA	200	_	500	_
hFE3	DC forward current gain3	VCE=5V, IC=50mA	27	_		_
VCE(sat)	C to E saturation voltage	IC=10mA, IB=1mA	_	_	0.15	V
VBE(sat)	B to E saturation voltage	IC=10mA, IB=1mA	—	—	1.0	V
fT	Gain bandwidth product	VCE=10V, IE=-10mA	100	_	300	MHz
Cob	Collector output capacitance	VCB=10V, IE=0A, f=1MHz	_	1.7	6	pF

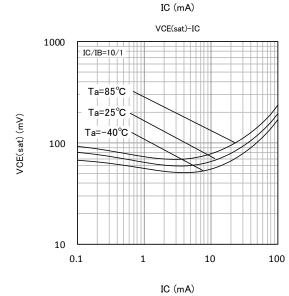
RT3C88M

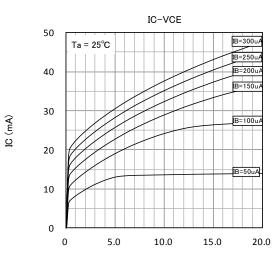
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Standard characteristics

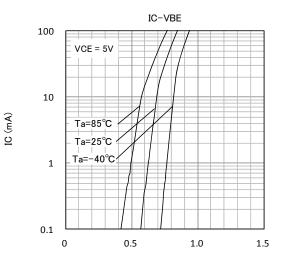






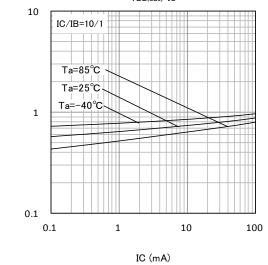








VBE(sat)-IC



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VBE(sat) (V)

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