# RT3N11M

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

#### DESCRIPTION

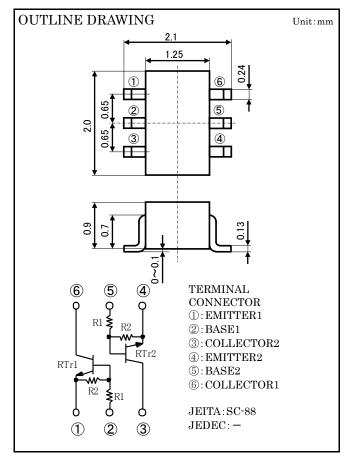
RT3N11M is composite transistor built with two RT1N141 chips in SC-88 package.

## FEATURE

Built-in bias resistor (R1=10k $\Omega$ , R2=10k $\Omega$ ) Mini package for easy mounting

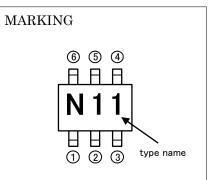
#### APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



#### MAXIMUM RATING(Ta=25°C)(RTr1, RTr2 COMMON)

SYMBOL	PARAMETER	RATING	UNIT	
VCBO	Collector to Base voltage	50	V	
VEBO	Emitter to Base voltage	10	V	
VCEO	Collector to Emitter voltage	50	V	
$V_{\rm IN}$	Input voltage	40	V	
Ic	Collector current	100	mA	
ICM	Peak Collector current	200	mA	
Рт	Total dissipation	200	mW	
Tj	Junction temperature	+150	°C	
Tstg	Storage temperature	-55~+150	°C	



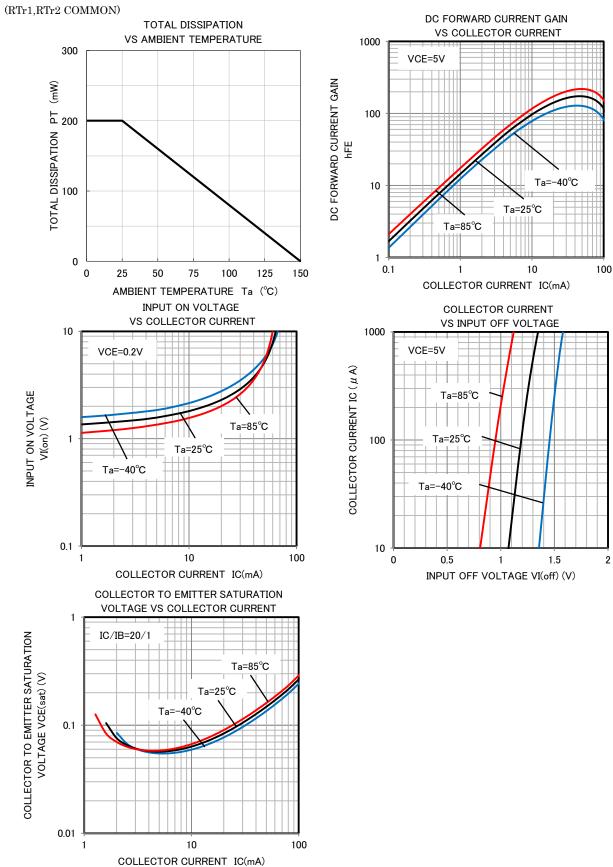
## ELECTRICAL CHARACTERISTICS(Ta=25°C)(RTr1, RTr2 COMMON)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	UNII
V(BR)CEO	Collector to Emitter breakdown voltage	$I_C=100 \mu$ A, $R_{BE}=\infty$	50	—	—	V
Ісво	Collector cut off current	$V_{CB}=50V$ , $I_E=0$	1	_	0.1	μA
IEBO	Emitter cut off current	V <sub>CB</sub> =5V, I <sub>C</sub> =0	192	250	357	μA
hFE	DC forward current gain	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA	50	—	—	_
VCE(sat)	Collector to Emitter saturation voltage	I <sub>C</sub> =10mA, I <sub>B</sub> =0.5mA	1	0.1	0.3	V
V <sub>I(ON)</sub>	Input on voltage	V <sub>CE</sub> =0.2V, I <sub>C</sub> =5mA	-	1.5	3.0	V
V <sub>I(OFF)</sub>	Input off voltage	$V_{CE}=5V$ , $I_C=100 \mu A$	0.8	1.1	—	V
$R_1$	Input resistor	-	7	10	13	kΩ
$R_2/R_1$	Resistor ratio	-	0.9	1.0	1.1	_
$_{ m fr}$	Gain band width product	$V_{CE}=6V$ , $I_{E}=-10mA$		200	_	MHz

## ISAHAYA ELECTRONICS CORPORATION

RT3N11M

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type



#### TYPICAL CHARACTERISTICS

ISAHAYA ELECTRONICS CORPORATION

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