RT3TAAM

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

RT3TAAM is a composite transistor built with RT1N151 chip and RT1P151 chip in SC-88 package.

FEATURE

Silicon epitaxial type

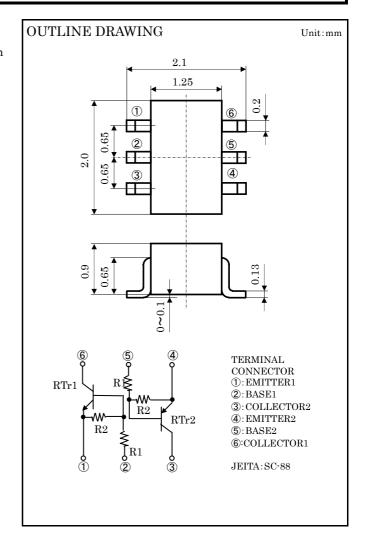
Each transistor elements are independent.

Mini package for easy mounting

APPLICATION

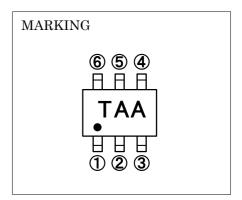
Inverted circuit, switching circuit, interface circuit, driver circuit

XPNP built in transistor of "−"sign is abbreviation.



MAXIMUM RATING (Ta=25°C)

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	
Ic	Collector current	100	mA	
ICM	Peak Collector current	200	mA	
Pc	Collector dissipation(Total, Ta=25°C)	150	mW	
Tj	Junction temperature	+150	°C	
$T_{ m stg}$	Storage temperature	-55~+150	°C	



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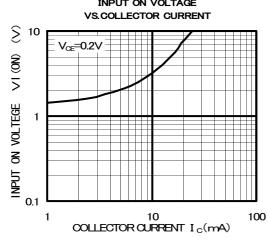
Composite Transistor With Resistor

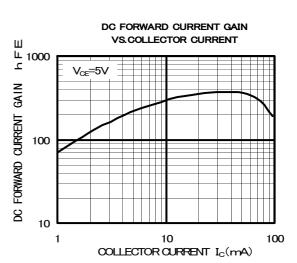
For Switching Application Silicon Epitaxial Type

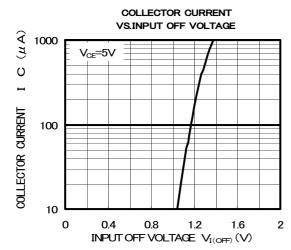
ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions		Limits			TT :4
				Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	I _C =100 μ A,R _{BE} =∞		50	-	-	V
Ісво	Collector cut off current	$V_{CB}=50V,I_{E}=0$		-	-	0.1	μΑ
hfE	DC forward current gain	Vce=5V,Ic=5mA		82	-	-	-
V _{CE} (sat)	Collector to Emitter saturation voltage	I _C =5mA,I _B =0.25mA		-	0.1	0.3	V
VI(ON)	Input on voltage	VCE=0.2V,IC=5mA		-	2.4	8.8	V
VI(OFF)	Input off voltage	V _{CE} =5V,I _C =100 μ A		0.8	1.1	-	V
R ₁	Input resistor	-		70	100	130	kΩ
R ₂ /R ₁	Resistor ratio	-		0.8	1.0	1.2	-
fT	Gain band width product	VCE=6V,IE=10mA	Tr1	-	200	-	2.577
			Tr2	-	150	-	MHz

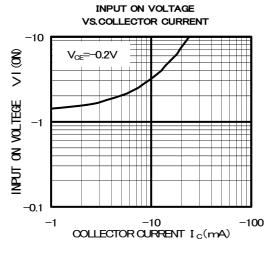
TYPICAL CHARACTERISTICS (Tr1) INPUT ON VOLTAGE

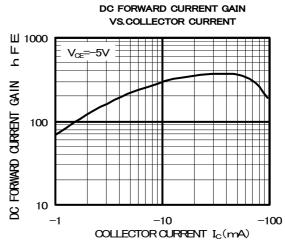


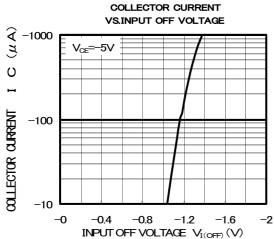




TYPICAL CHARACTERISTICS (Tr2)









Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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