RT3T11U

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

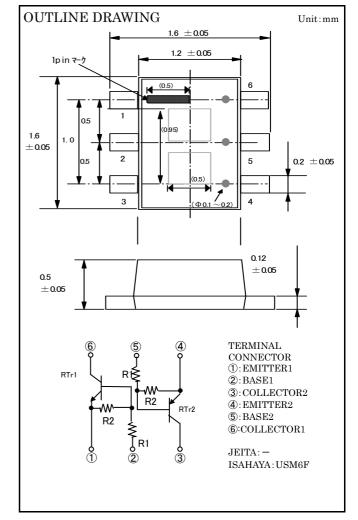
RT3T11U is a composite transistor built with RT1N141 chip and RT1P141 chip in USM6F package.

FEATURE

Silicon epitaxial type Each transistor elements are independent. Mini package for easy mounting

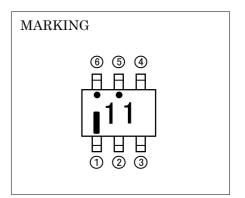
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit



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)	125	mW	
Tj	Junction temperature	+150	°C	
T_{stg}	Storage temperature	$-55 \sim +150$	°C	



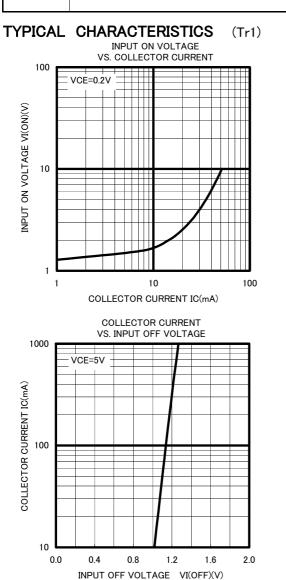
RT3T11U

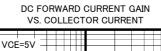
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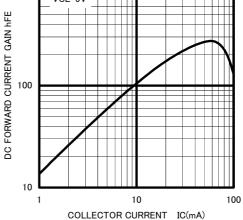
Symbol	Parameter	m , 1:,:	Limits			Unit	
		Test conditions		Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	I с=100µА, R _{BE} =∞		50			V
Ісво	Collector cut off current	$V_{\rm CB}{=}50V,~I$ $_{\rm E}{=}0mA$				0.1	μA
hFE	DC forward current gain	V _{CE} =5V, I C=10mA		50			-
VCE(sat)	Collector to Emitter saturation voltage	I c=10mA, I _B =0. 5mA			0.1	0.3	V
VI(ON)	Input on voltage	V _{CE} =0.2V, I _C =5mA			1.5	3.0	V
VI(OFF)	Input off voltage	Vce=5V, I c=100µА		0.8	1.1		V
R ₁	Input resistor			7.0	10	13	KΩ
R_2/R_1	Resistor ratio			0.9	1.0	1.1	-
fT	Gain band width product	Tr1	V _{CE} =6V, I _E =-10mA		200		
		Tr2	V _{CE} =-6V, I _E =10mA		150		MHz

1000

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





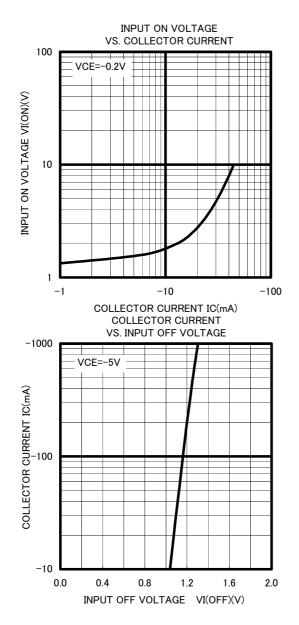


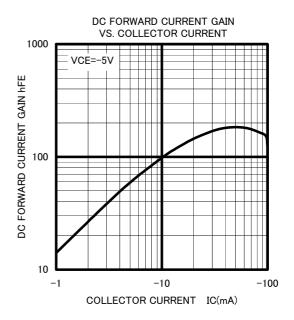
ISAHAYA ELECTRONICS CORPORATION

RT3T11U

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

TYPICAL CHARACTERISTICS (Tr2)







Marketing division, Marketing planning department

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