RT3P55M

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

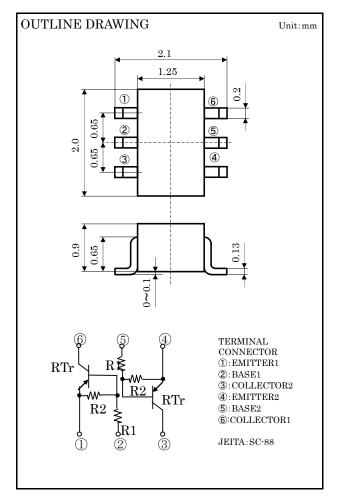
RT3P55M is a composite transistor built with two RT1P144 in SC-88 package.

FEATURE

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

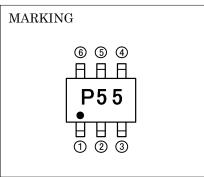
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit



MAXIMUM RATING (Ta=25°C) (The characteristics apply to both Tr1 and Tr2.)

SYMBOL	PARAMETER	RATING	UNIT
VCBO	Collector to Base voltage	-50	V
Vebo	Emitter to Base voltage	-6	V
VCEO	Collector to Emitter voltage	-50	V
VIN	Input voltage	-40	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
Tstg	Storage temperature	-55~+150	°C



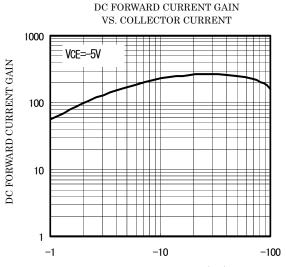
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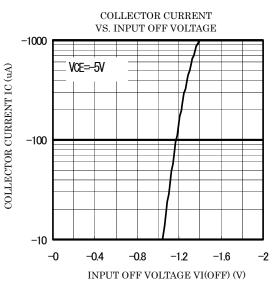
ELECTRICAL CHARACTERISTICS (Ta=25°C) (The characteristics apply to both Tr1 and Tr2.)

Symbol	Parameter	Test conditions	Limits			Unit
			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	$V_{\rm CB}\text{=-}50\text{V},~\text{I}$ $_{\rm E}$ =0			-0.1	μА
hfe	DC forward current gain	Vce=-5V, I c=-5mA	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	Vce=-0.2V, I c=-5mA		-1.0	-1.8	V
VI(OFF)	Input off voltage	Vce=-5V, I c=-100µА	-0.4	-0.7		V
R1	Input resistor		7	10	13	KΩ
R_2/R_1	Resistor ratio		4.2	4.7	5.1	-
f_{T}	Gain band width product	V_{CE} =-6V, I _E =10mA		150		MHz

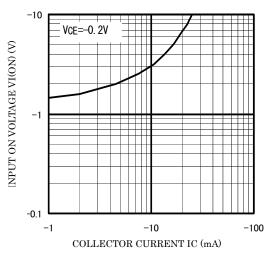
TYPICAL CHARACTERISTICS (RTr1,RTr2)







INPUT ON VOLTAGE VS. COLLECTOR CURRENT



ISAHAYA ELECTRONICS CORPORATION



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