RT3PDDM

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3PDDM is composite transistor built with two RT1P237 chips in SC-88 package.

FEATURE

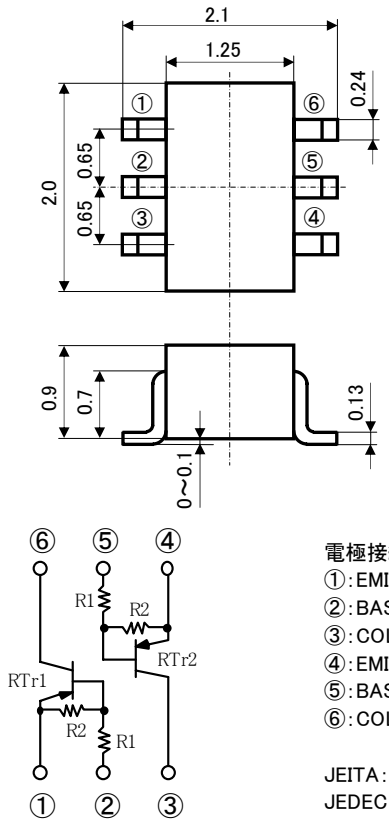
Silicon epitaxial type
Each transistor elements are independent.
Mini package for easy mounting

APPLICATION

Inverted circuit, Switching circuit,
Interface circuit, Driver circuit

OUTLINE DRAWING

Unit:mm



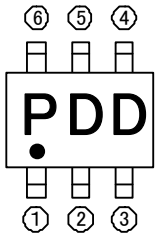
電極接続
①:EMITTER1
②:BASE1
③:COLLECTOR2
④:EMITTER2
⑤:BASE2
⑥:COLLECTOR1

JEITA:SC-88
JEDEC:—

MAXIMUM RATING(Ta=25℃)(RTr1, RTr2 COMMON)

SYMBOL	PARAMETER	RATING	UNIT
V_{CBO}	Collector to Base voltage	-50	V
V_{EBO}	Emitter to Base voltage	-6	V
V_{CEO}	Collector to Emitter voltage	-50	V
V_{IN}	Input voltage	-12	V
I_C	Collector current	-100	mA
I_{CM}	Peak Collector current	-200	mA
P_T	Collector dissipation(Total)	150	mW
T_j	Junction temperature	+150	℃
T_{stg}	Storage temperature	-55～+150	℃

MARKING



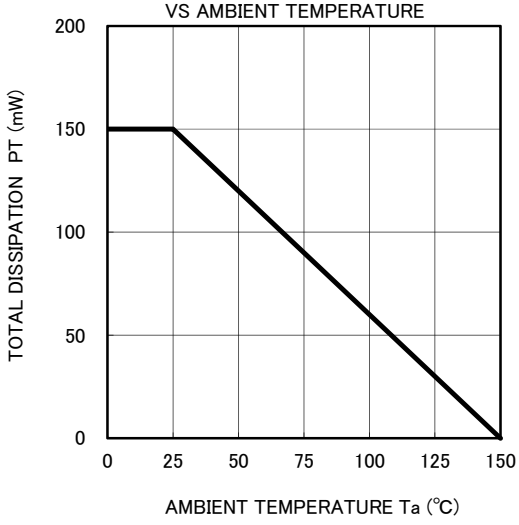
ELECTRICAL CHARACTERISTICS(Ta=25℃)(RTr1, RTr2 COMMON)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CEO}$	Collector to Emitter break down voltage	I_C=-100μA, R_{BE}=∞	-50	—	—	V
I_{CBO}	Collector cut off current	V_{CB}=-50V, I_E=0	—	—	-0.1	μA
I_{EBO}	Emitter cut off current	V_{EB}=-5V, I_C=0	-76	-102	-147	μA
h_{FE}	DC forward current gain	V_{CE}=-5V, I_C=-10mA	80	—	—	—
$V_{CE(sat)}$	Collector to Emitter saturation voltage	I_C=-10mA, I_B=-0.5mA	—	—	-0.3	V
$V_{I(ON)}$	Input on voltage	V_{CE}=-0.2V, I_C=-5mA	—	-0.7	-1.1	V
$V_{I(OFF)}$	Input off voltage	V_{CE}=-5V, I_C=-100μA	-0.5	-0.6	—	V
R_1	Input resistor	—	1.5	2.2	2.9	kΩ
R_2/R_1	Resistor ratio	—	17	22	26	—
f_T	Gain band width product	V_{CE}=-6V, I_E=10mA	—	150	—	MHz

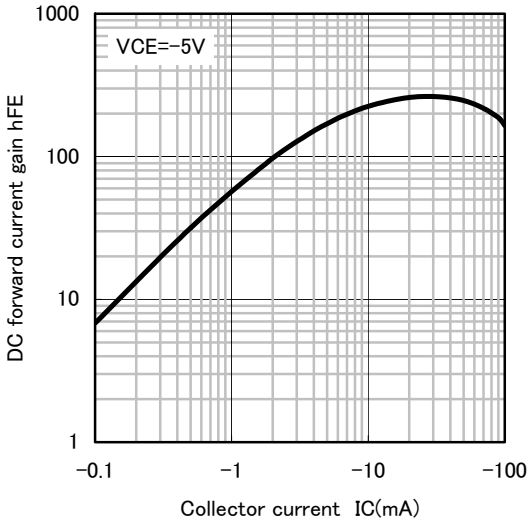
TYPICAL CHARACTERISTICS

(Ta=25℃)(RTr1,RTr2 COMMON)

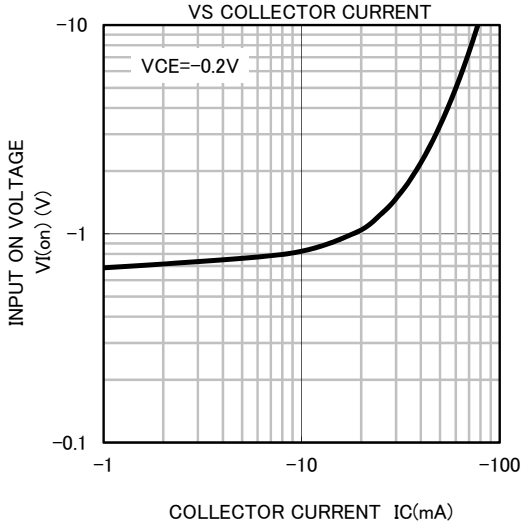
TOTAL DISSIPATION
VS AMBIENT TEMPERATURE



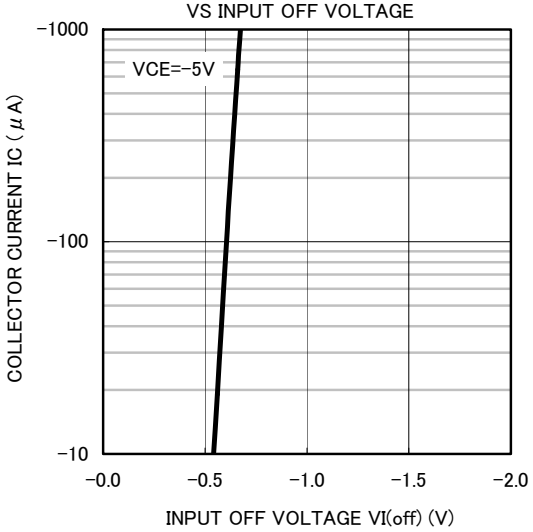
DC forward current gain–Collector current



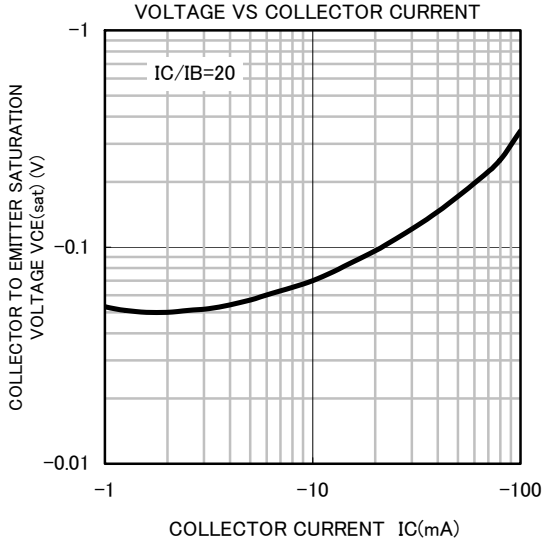
INPUT ON VOLTAGE
VS COLLECTOR CURRENT



COLLECTOR CURRENT
VS INPUT OFF VOLTAGE



COLLECTOR TO EMITTER SATURATION
VOLTAGE VS COLLECTOR CURRENT



ISAHAYA ELECTRONICS CORPORATION

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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