RTE13LFM

Composite Transistor
Zener Diode
Silicon NPN Epitaxial Type

DESCRIPTION

RTE13LFM is compound transistor built with 2SC3052 chip and 8.2V Zener diode in SC-88 package.

FEATURE

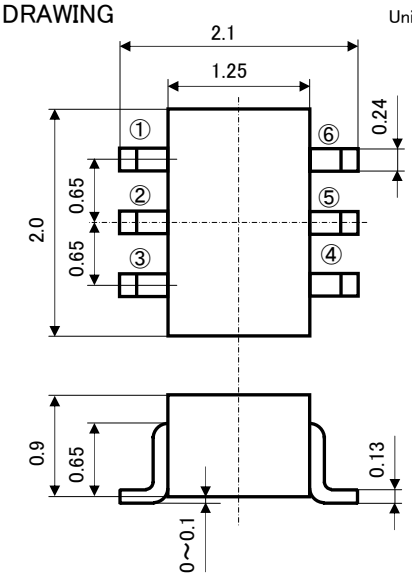
Silicon epitaxial type
Each transistor elements are independent.
Mini package for easy mounting

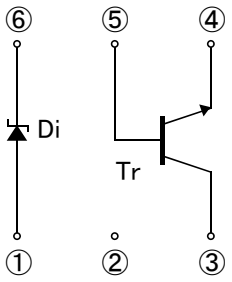
APPLICATION

Power supply circuit, Driver circuit, etc

OUTLINE DRAWING

Unit : mm





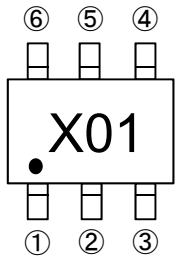
電極接続
①:ANODE
②:NC
③:COLLECTOR
④:EMITTER
⑤:BASE
⑥:CATHODE

JEITA:SC-88
JEDEC:—

MAXIMUM RATING(Ta=25℃)

SYMBOL	PARAMETER	RATING		UNIT
V_{CBO}	Collector to Base voltage	Tr	50	V
V_{CEO}	Collector to Emitter voltage		50	V
V_{EBO}	Emitter to Base voltage		6	V
I_C	Collector current		200	mA
P_T	Total power dissipation(Ta=25℃)	Tr	150	mW
T_j	Junction temperature	Di	+150	℃
T_{stg}	Storage temperature	Common	−55～+150	℃

MARKING



ELECTRICAL CHARACTERISTICS(Ta=25℃)

【 Tr 】

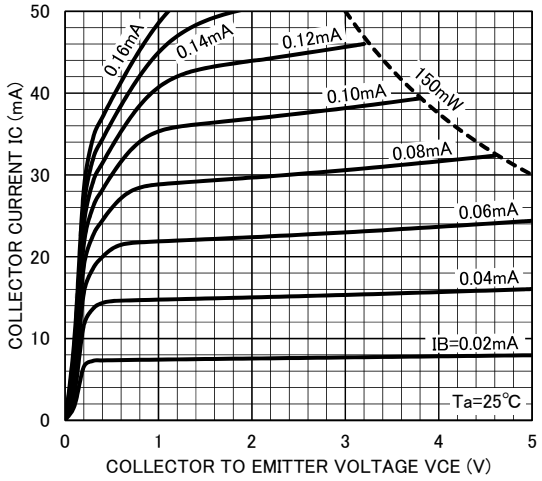
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CEO}$	Collector to Emitter break down voltage	I_C=100μA, R_{BE}=∞	50	−	−	V
I_{CBO}	Collector cut off current	V_{CB}=50V, I_E=0A	−	−	0.1	μA
I_{EBO}	Emitter cut off current	V_{EB}=6V, I_C=0A	−	−	0.1	μA
h_{FE}	DC forward current gain	V_{CE}=6V, I_C=1mA	250	−	500	−
h_{FE}	DC forward current gain	V_{CE}=6V, I_C=0.1mA	90	−	−	−
$V_{CE(sat)}$	Collector to Emitter saturation voltage	I_C=100mA, I_B=10mA	−	−	0.3	V
f_T	Gain band width product	V_{CE}=6V, I_E=−10mA	−	200	−	MHz
C_{ob}	Collector output capacitance	V_{CB}=6V, I_E=0A, f=1MHz	−	2.5	−	pF

【 Di 】

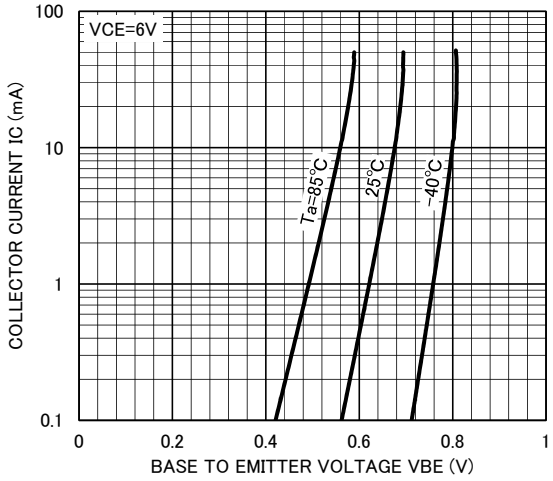
Zener voltage V_Z(V)			Reverse current I_R(μA)	
MIN	MAX	I_Z(mA)	MAX	V_R(V)
7.790	8.610	5	0.5	6.5

【Tr】TYPICAL CHARACTERISTICS

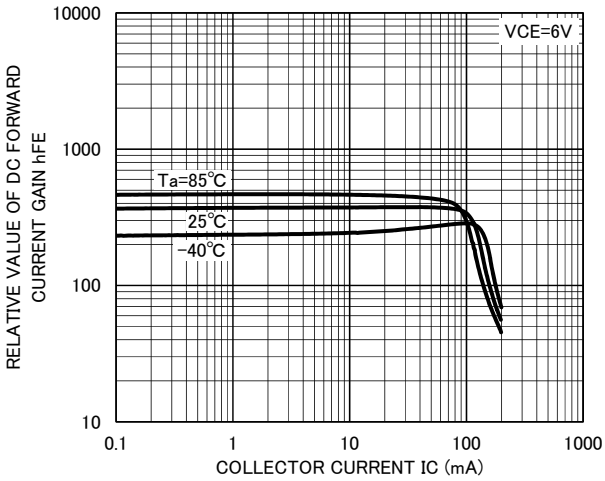
COMMON EMITTER OUTPUT



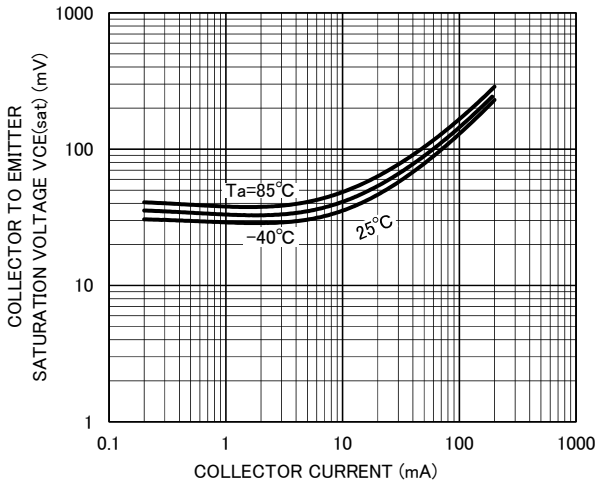
COMMON EMITTER TRANSFER



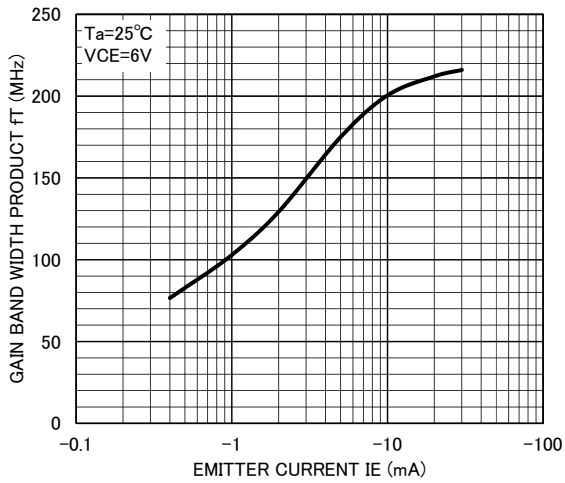
hFE-IC



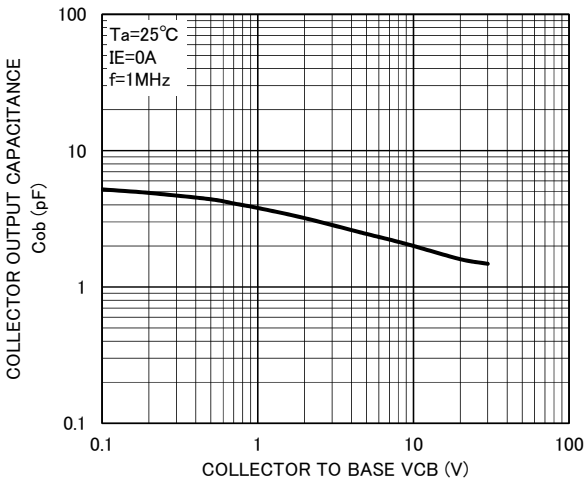
VCE(sat)-IC



fT-IE

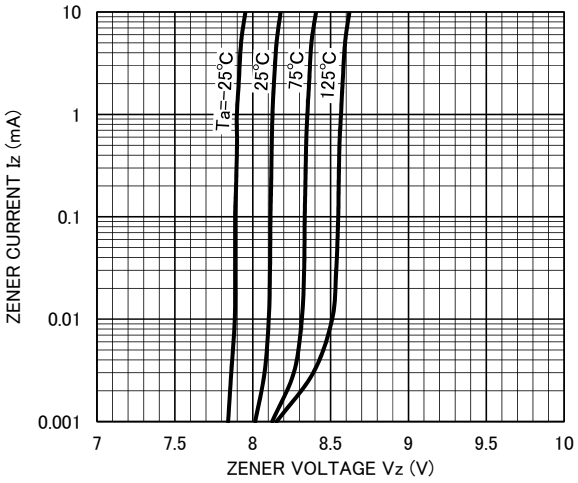


Cob-VCB

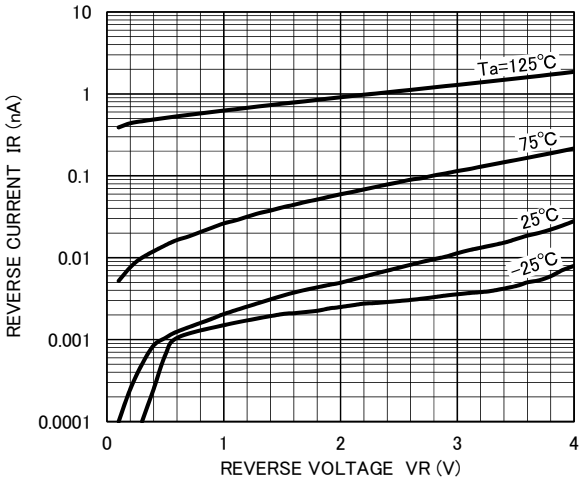


【Di】TYPICAL CHARACTERISTICS

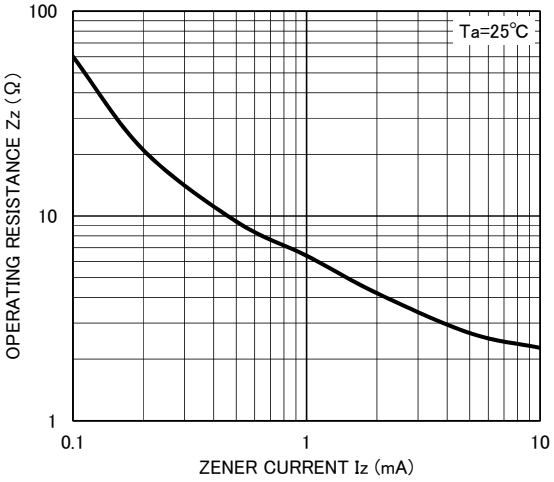
Iz-Vz



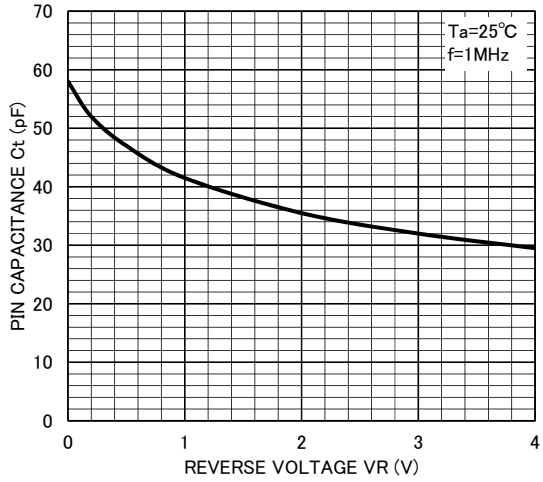
IR-VR



Zz-Iz



Ct-VR



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