Panasonic

2SC5216

Silicon NPN epitaxial planer type

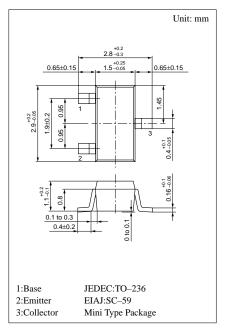
For high-frequency amplification/oscillation/mixing

Features

- High transition frequency f_T.
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	15	V	
Collector to emitter voltage	V_{CEO}	8	V	
Emitter to base voltage	$V_{\rm EBO}$	3	V	
Collector current	I_{C}	50	mA	
Collector power dissipation	P_{C}	200	mW	
Junction temperature	T_{j}	150	°C	
Storage temperature	T_{stg}	−55 ~ +150	°C	



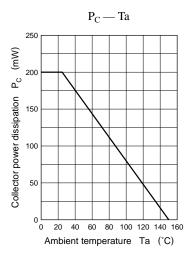
Marking symbol: FB

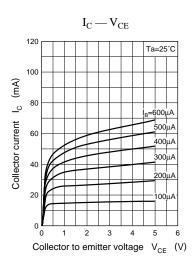
Electrical Characteristics (Ta=25°C)

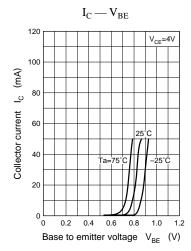
Parameter	Symbol	Conditions	min	typ	max	Unit
Emitter cutoff current	I _{EBO}	$V_{EB} = 2V, I_C = 0$			2	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = 100 \mu A, I_{\rm E} = 0$	15			V
Forward current transfer ratio	h _{FE}	$V_{CE} = 4V$, $I_C = 2mA$	100		350	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 20\text{mA}, I_B = 4\text{mA}$			0.5	V
Base to emitter voltage	V _{BE}	$V_{CE} = 4V$, $I_C = 2mA$		0.7		V
Transition frequency	f_T	$V_{CB} = 10V, I_{E} = -15mA, f = 200MHz$	0.8	1.3	1.9	GHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$	0.6	1.0	1.4	pF
Common emitter reverse transfer capacitance	C _{rb}	$V_{CB} = 6V, I_E = 0, f = 1MHz$		0.4		pF
Power gain	PG	$V_{CB} = 10V, I_{E} = -10mA, f = 200MHz$	14	18	22	dB
h _{FE} ratio	h _{FE(RATIO)}	$V_{CE} = 4V, I_{C} = 100\mu A$	0.6		1.5	
		$V_{CE} = 4V, I_C = 2mA$				

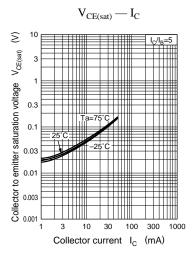
Panasonic 1

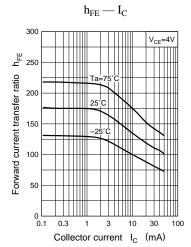
Transistor 2SC5216

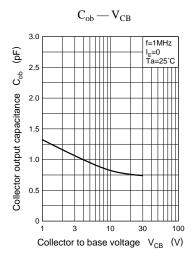












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