Transistor Panasonic

2SC5363(Tentative)

Silicon NPN epitaxial planer type

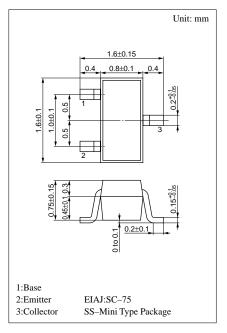
For low-voltage high-frequency amplification

Features

- High transition frequency f_T.
- Small collector output capacitance Cob.
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	9	V	
Collector to emitter voltage	V_{CEO}	6	V	
Emitter to base voltage	V_{EBO}	2	V	
Collector current	I_{C}	30	mA	
Collector power dissipation	P_{C}	125	mW	
Junction temperature	T_{j}	125	°C	
Storage temperature	T_{stg}	−55 ~ +125	°C	



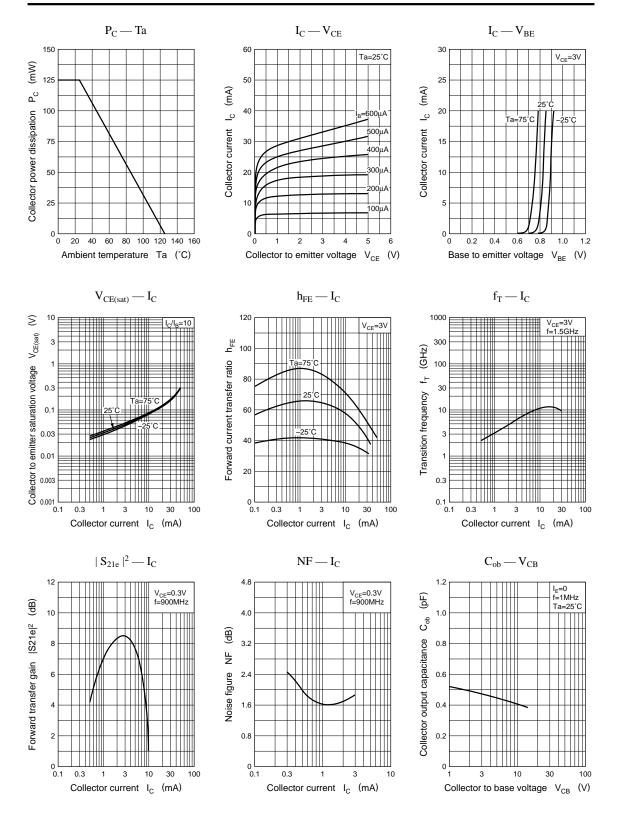
Marking symbol: 3Y

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 5V, I_{E} = 0$			1	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 1V, I_{C} = 0$			1	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 3V, I_{C} = 10mA$	40	100	200	
Collector output capacitance	C _{ob}	$V_{CB} = 3V, I_E = 0, f = 1MHz$		0.4	0.7	pF
Transition frequency	f _T	$V_{CE} = 3V, I_{C} = 10mA, f = 1.5GHz$		10		GHz
Foward transfer gain	S _{21e} ²	$V_{CE} = 0.3V, I_{C} = 1 \text{mA}, f = 0.9 \text{GHz}$		6.5		dB
Noise figure	NF	$V_{CE} = 0.3V, I_{C} = 1mA, f = 0.9GHz$		1.7		dB

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