2SC5363

Silicon NPN epitaxial planar type

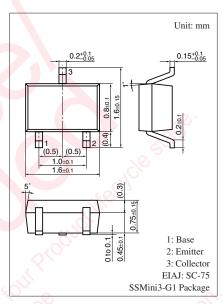
For low-voltage high-frequency amplification

Features

- High transition frequency f_T
- \bullet Small collector output capacitance (Common base, input open circuited) C_{ob}
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	9	V	
Collector-emitter voltage (Base open)	V _{CEO}	6	v	
Emitter-base voltage (Collector open)	V _{EBO}	2	V	
Collector current	I _C	30	mA	
Collector power dissipation	P _C	125	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	



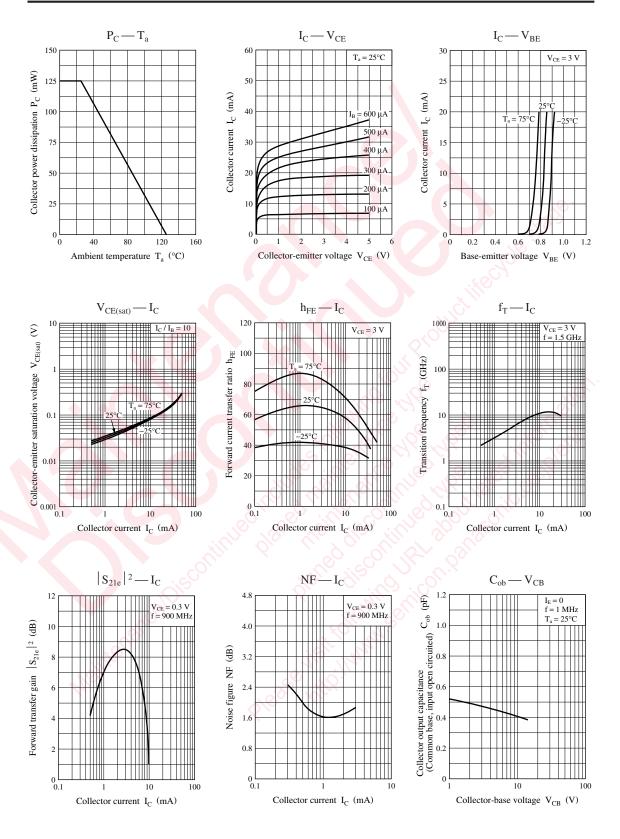
Marking Symbol: 3Y

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

					D.	
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 5 V, I_E = 0$	20	с Sz	1	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = 1 V, I_C = 0$		5,	1	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 3 V, I_C = 10 mA$	40	100	160	
Transition frequency	f_T	$V_{CE} = 3 V, I_C = 10 mA, f = 1.5 GHz$		10		GHz
Collector output capacitance	C _{ob}	$V_{CB} = 3 V, I_E = 0, f = 1 MHz$		0.4	0.7	pF
(Common base, input open circuited)		10 201				
Forward transfer gain	$ S_{21e} ^2$	$V_{CE} = 0.3 \text{ V}, I_{C} = 1 \text{ mA}, f = 0.9 \text{ GHz}$		6.5		dB
Noise figure	NF	$V_{CE} = 0.3 \text{ V}, I_{C} = 1 \text{ mA}, f = 0.9 \text{ GHz}$		1.7		dB

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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