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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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2SC5363

Silicon NPN epitaxial planar type

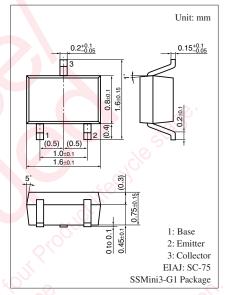
For low-voltage high-frequency amplification

■ Features

- High transition frequency f_T
- Small collector output capacitance (Common base, input open circuited) Cob
- 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	T _j	125	°C	
Storage temperature	T_{stg}	-55 to +125	°C	

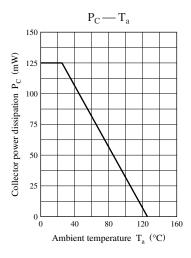


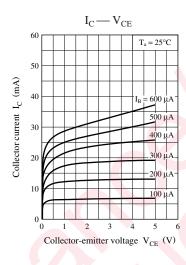
Marking Symbol: 3Y

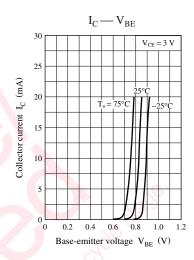
■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

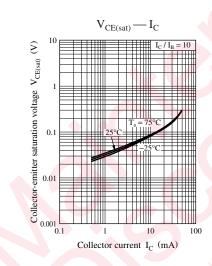
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 5 \text{ V}, I_{E} = 0$	70	250	1	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = 1 \text{ V}, I_C = 0$			1	μΑ
Forward current transfer ratio	h_{FE}	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$	40	100	160	
Transition frequency	f_T	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}, f = 1.5 \text{ GHz}$		10		GHz
Collector output capacitance	C _{ob}	$V_{CB} = 3 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$		0.4	0.7	pF
(Common base, input open circuited)		110, 50,				
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

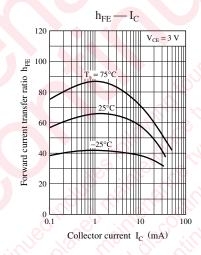
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

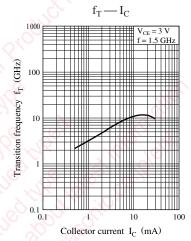


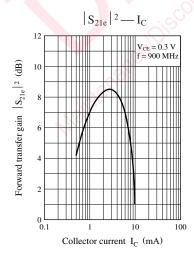


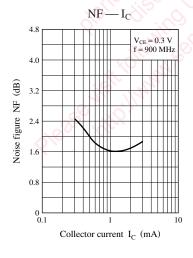


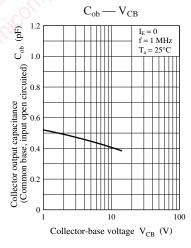












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