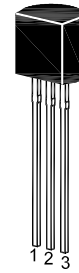


NPN Silicon Epitaxial Planar Transistor

for AM/FM amplifier and local oscillator of FM/VHF tuner applications.

The transistor is subdivided into six groups, D, E, F, G, H and I, according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



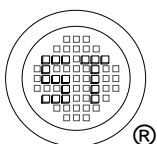
1. Emitter 2. Base 3. Collector
TO-92 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	30	V
Collector Emitter Voltage	V_{CEO}	15	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	50	mA
Power Dissipation	P_{tot}	400	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 5\text{ V}$, $I_C = 1\text{ mA}$ Current Gain Group	D h_{FE}	28	-	45	-
	E h_{FE}	39	-	60	-
	F h_{FE}	54	-	80	-
	G h_{FE}	72	-	108	-
	H h_{FE}	97	-	146	-
	I h_{FE}	132	-	198	-
Collector Cutoff Current at $V_{CB} = 12\text{ V}$	I_{CBO}	-	-	50	nA
Collector Base Breakdown Voltage at $I_C = 100\text{ }\mu\text{A}$	$V_{(BR)CBO}$	30	-	-	V
Collector Emitter Breakdown Voltage at $I_C = 1\text{ mA}$	$V_{(BR)CEO}$	15	-	-	V
Emitter Base Breakdown Voltage at $I_E = 100\text{ }\mu\text{A}$	$V_{(BR)EBO}$	5	-	-	V
Collector Emitter Saturation Voltage at $I_C = 10\text{ mA}$, $I_B = 1\text{ mA}$	$V_{CE(sat)}$	-	-	0.5	V
Collector Base Capacitance at $V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{cbo}	-	1.3	1.7	pF
Gain Bandwidth Product at $V_{CE} = 5\text{ V}$, $I_C = 5\text{ mA}$	f_T	700	1100	-	MHz



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ISO 9001 : 2008
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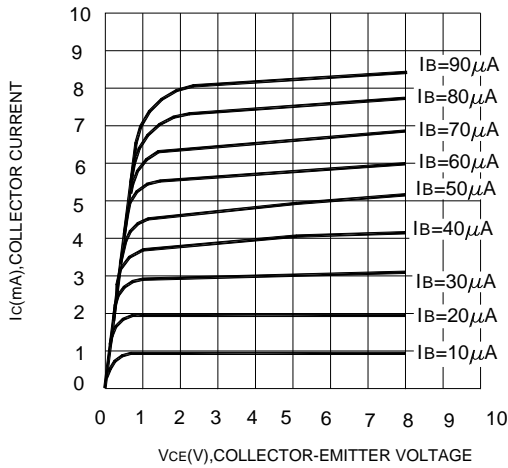


BS-OHSAS 18001 : 2007
Certificate No. 7116

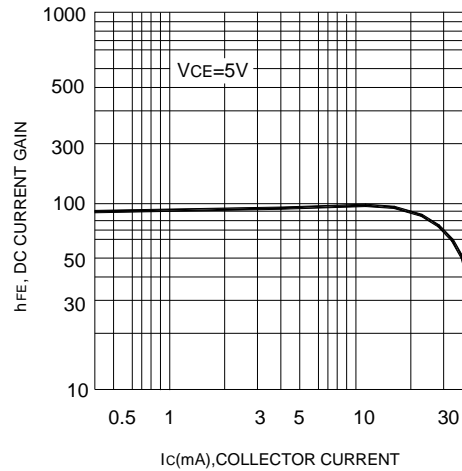


IECQ QC 080000
Certificate No. PRC-HSPM-1483

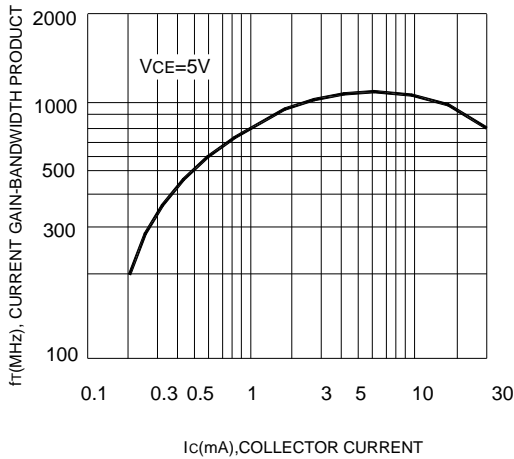
STATIC CHARACTERISTIC



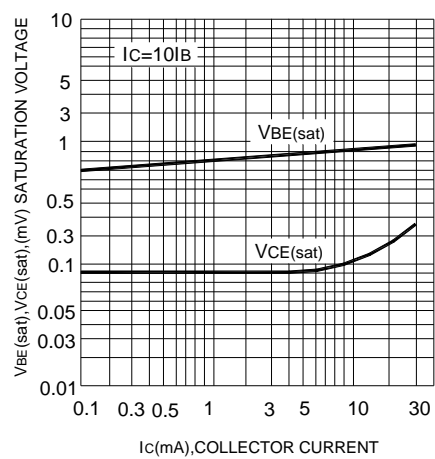
DC CURRENT GAIN



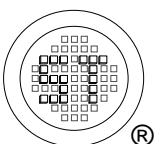
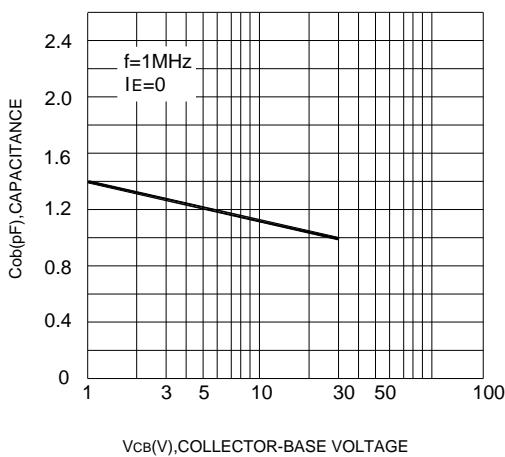
CURRENT GAIN-BANDWIDTH PRODUCT



BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE



OUTPUT CAPACITANCE



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