

SILICON TRANSISTOR 2SA812

PNP SILICON EPITAXIAL TRANSISTOR MINI MOLD

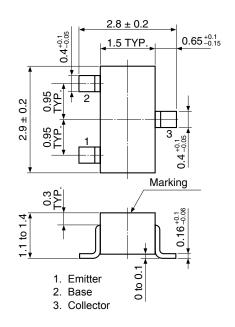
FEATURES

- Complementary to 2SC1623
- High DC Current Gain: hfe = 200 TYP. (Vce = -6.0 V, Ic = -1.0 mA)
- High Voltage: VcEo = −50 V

ABSOLUTE MAXIMUM RATINGS (TA = 25°C)

Collector to Base Voltage	Vсво	-60	V
Collector to Emitter Voltage	Vceo	-50	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current (DC)	Ic	-100	mΑ
Total Power Dissipation	Рт	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	-55 to +150	°C

<R> PACKAGE DRAWING (Unit: mm)



ELECTRICAL CHARACTERISTICS (TA = 25°C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector Cut-off Current	Ісво			-0.1	μΑ	V _{CB} = -60 V, I _E = 0 A
Emitter Cut-off Current	І ЕВО			-0.1	μΑ	V _{EB} = -5.0 V, I _C = 0 A
DC Current Gain	hfE	90	200	600		$V_{CE} = -6.0 \text{ V, Ic} = -1.0 \text{ mA}^{Note}$
Collector Saturation Voltage	V _{CE(sat)}		-0.18	-0.3	٧	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$
Base to Emitter Voltage	V _{BE}	-0.58	-0.62	-0.68	V	$V_{CE} = 6.0 \text{ V}, I_{C} = -1.0 \text{ mA}$
Gain Bandwidth Product	f⊤		180		MHz	V _{CE} = -6.0 V, I _E = 10 mA
Output Capacitance	Сор		4.5		pF	$V_{CB} = -10 \text{ V}, I_E = 0 \text{ A}, f = 1.0 \text{ MHz}$

Note Pulsed: PW \leq 350 μ s, Duty Cycle \leq 2%

hfe CLASSIFICATION

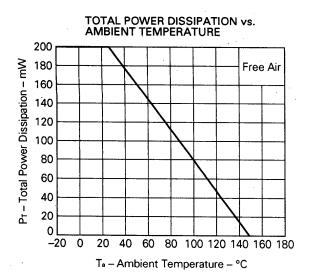
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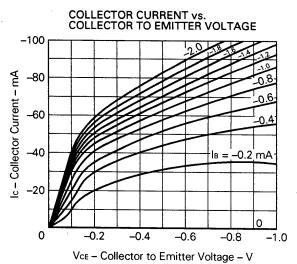
Marking	M4	M5	M6	M7
hfE	90 to 180	135 to 270	200 to 400	300 to 600

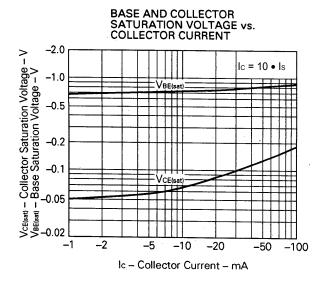
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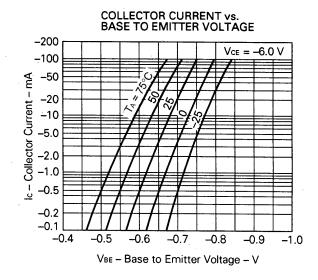
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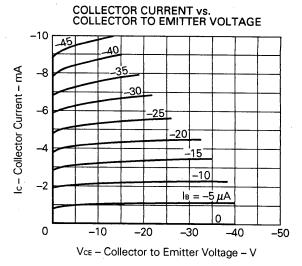
<R> TYPICAL CHARACTERISTICS (TA = 25°C)

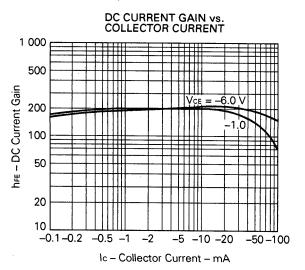


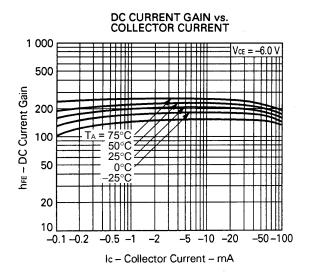


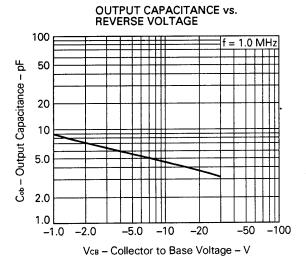


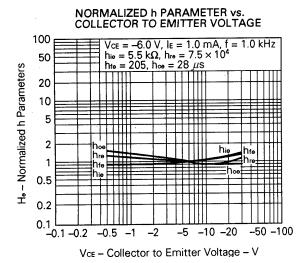


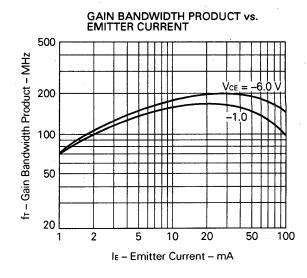


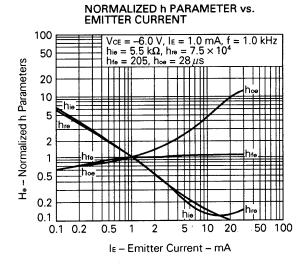












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