

PNP SILICON EPITAXIAL TRANSISTOR MINI MOLD

FEATURES

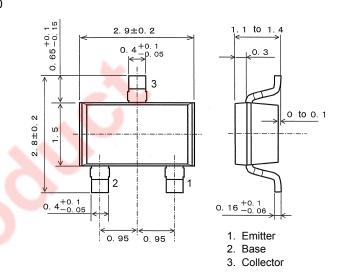
NEC

- Complementary to 2SC1623A
- High DC Current Gain: h_{FE} = 200 TYP. (V_{CE} = -6.0 V, I_C = -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	Vebo	-5.0	V
Collector Current (DC)	lc	-100	mΑ
Total Power Dissipation	Pτ	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	–55 to +150	°C

PACKAGE DRAWING (Unit: mm)



ELECTRICAL CHARACTERISTICS (TA = 25°C)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector Cut-off Current	Ісво			-0.1	μA	$V_{CB} = -60 \text{ V}, \text{ I}_{E} = 0 \text{ A}$
Emitter Cut-off Current	Іево			-0.1	μA	V _{EB} = -5.0 V, I _C = 0 A
DC Current Gain	hfe	90	200	600		$V_{CE} = -6.0 \text{ V}, \text{ Ic} = -1.0 \text{ mA}^{Note}$
Collector Saturation Voltage	VCE(sat)		-0.18	-0.3	V	Ic = -100 mA, I _B = -10 mA
Base to Emitter Voltage	VBE	-0.58	-0.62	-0.68	V	Vce = 6.0 V, Ic = -1.0 mA
Gain Bandwidth Product	fτ		180		MHz	Vce = -6.0 V, Ie = 10 mA
Output Capacitance	Cob		4.5		pF	V_{CB} = -10 V, I _E = 0 A, f = 1.0 MHz

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

hFE CLASSIFICATION

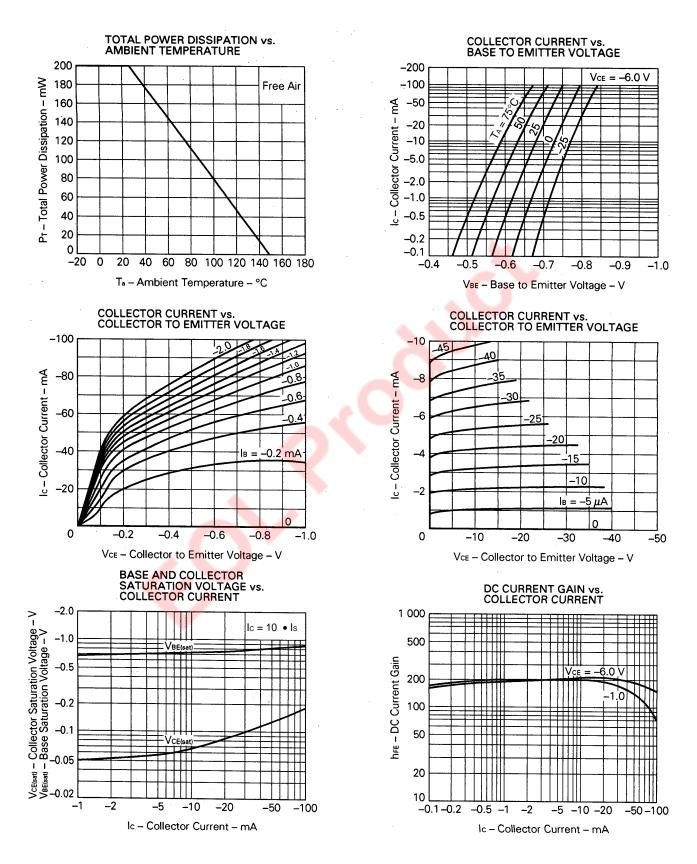
Marking	M4	M5	M6	M7
hfe	90 to 180	135 to 270	200 to 400	300 to 600

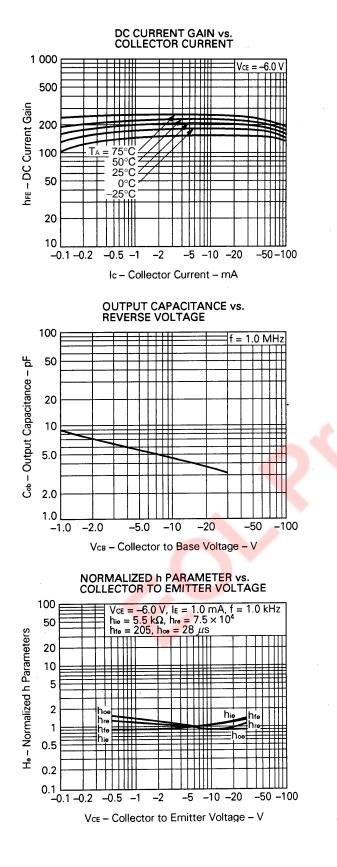
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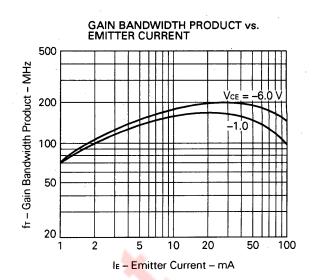
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The mark <R> shows major revised points.

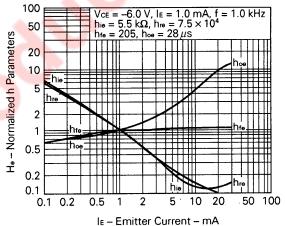
<R> TYPICAL CHARACTERISTICS (TA = 25°C)







NORMALIZED h PARAMETER vs. EMITTER CURRENT



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