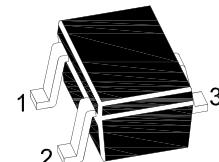
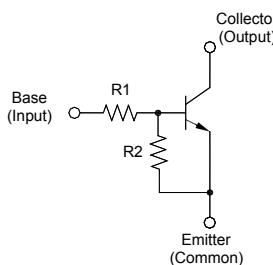


NPN Silicon Epitaxial Planar Digital Transistor

Features

- With built-in bias resistors
- Simplify circuit design
- Reduce a quantity of parts and manufacturing process

MARKING: 24



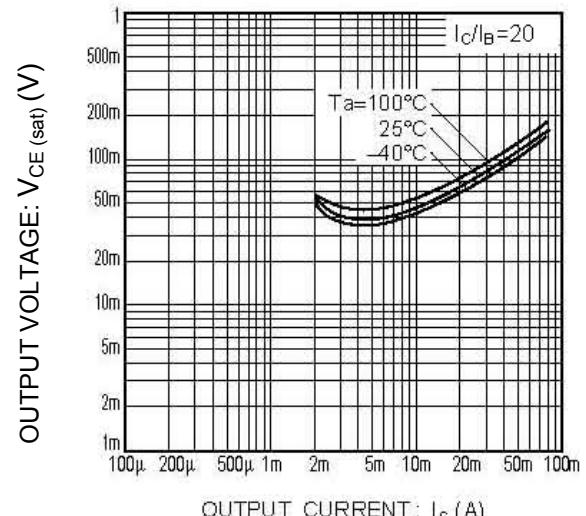
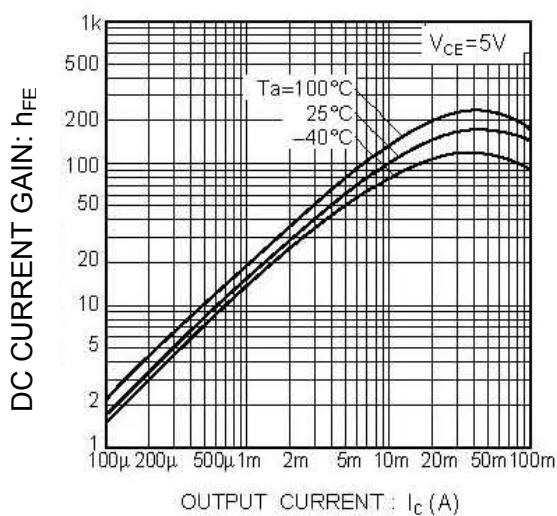
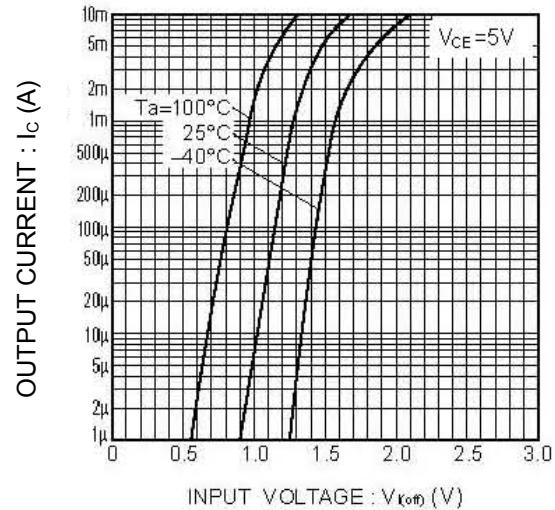
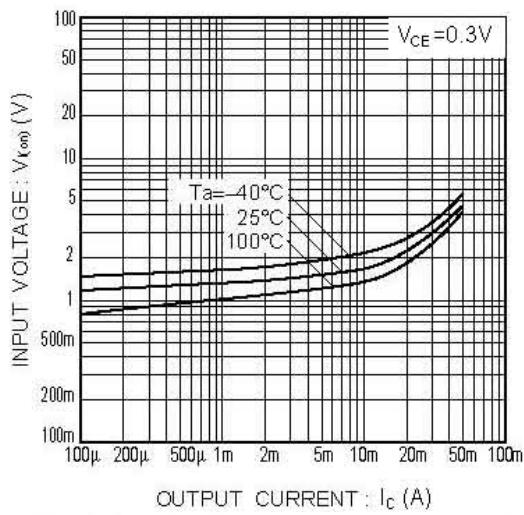
1.Base 2.Emitter 3.Collector
SOT-523 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Emitter Voltage	V_{CEO}	50	V
Input Voltage	V_I	- 10 to + 40	V
Collector Current	I_C	100	mA
Power Dissipation	P_{tot}	150	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 5 \text{ V}$, $I_C = 5 \text{ mA}$	h_{FE}	30	-	-	-
Collector Base Cutoff Current at $V_{CB} = 50 \text{ V}$	I_{CBO}	-	-	500	nA
Emitter Base Cutoff Current at $V_{EB} = 5 \text{ V}$	I_{EBO}	-	-	0.88	mA
Collector Emitter Saturation Voltage at $I_C = 10 \text{ mA}$, $I_B = 0.5 \text{ mA}$	$V_{CE(sat)}$	-	-	0.3	V
Input on Voltage at $V_{CE} = 0.3 \text{ V}$, $I_C = 10 \text{ mA}$	$V_{I(on)}$	-	-	3	V
Input off Voltage at $V_{CE} = 5 \text{ V}$, $I_C = 100 \mu\text{A}$	$V_{I(off)}$	0.5	-	-	V
Transition frequency at $V_{CE} = 10 \text{ V}$, $-I_E = 5 \text{ mA}$, $f = 100 \text{ MHz}$	f_T	-	250	-	MHz
Input Resistance	R_1	7	10	13	KΩ
Resistance Ratio	R_2 / R_1	0.8	1	1.2	-



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