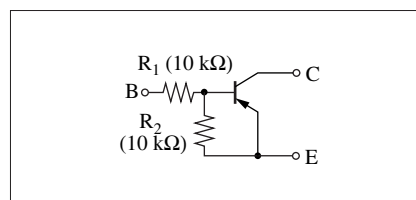


Silicon PNP epitaxial planar transistor

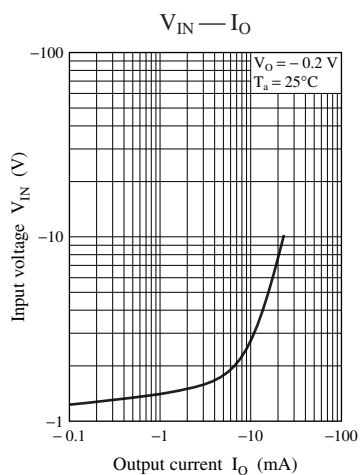
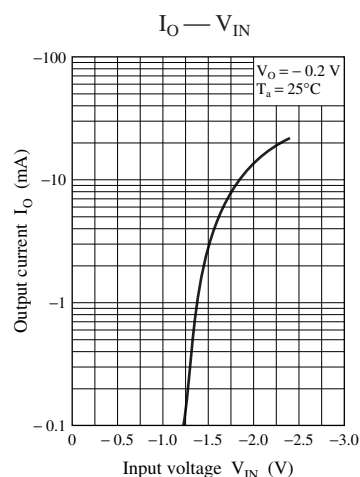
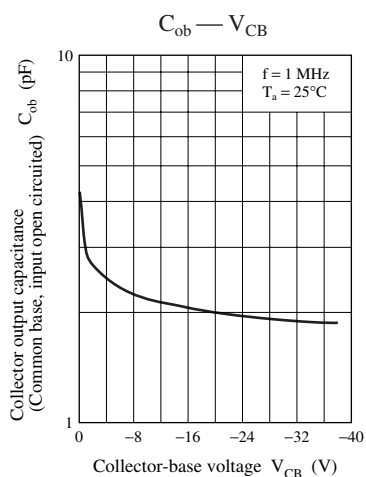
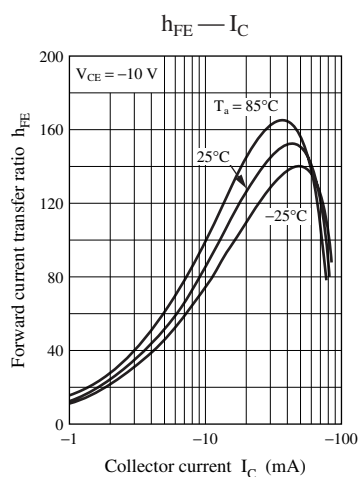
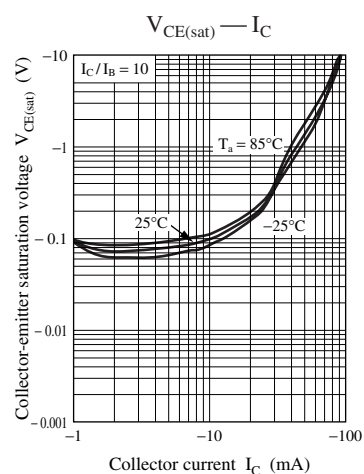
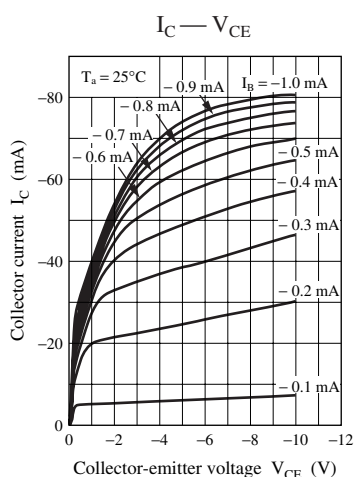
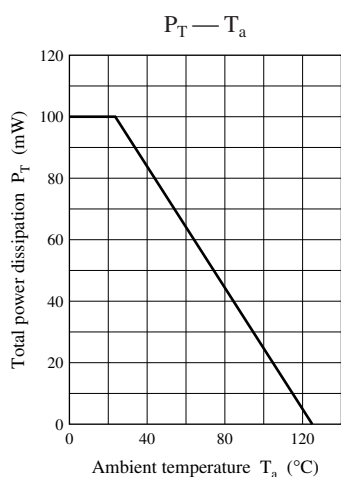
- Suitable for high-density mounting and downsizing of the equipment
- Contribute to low power consumption

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	-50	V
Collector-emitter voltage (Base open)	V_{CEO}	-50	V
Collector current	I_C	-80	mA
Total power dissipation	P_T	100	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C



Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = -10\text{ }\mu\text{A}$, $I_E = 0$	-50			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = -2\text{ mA}$, $I_B = 0$	-50			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -50\text{ V}$, $I_E = 0$			- 0.1	μA
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{CE} = -50\text{ V}$, $I_B = 0$			- 0.5	μA
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = -6\text{ V}$, $I_C = 0$			- 0.5	mA
Forward current transfer ratio	h_{FE}	$V_{CE} = -10\text{ V}$, $I_C = -5\text{ mA}$	35			—
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -10\text{ mA}$, $I_B = -0.3\text{ mA}$			- 0.25	V
Output voltage high-level	V_{OH}	$V_{CC} = -5\text{ V}$, $V_B = -0.5\text{ V}$, $R_L = 1\text{ k}\Omega$	-4.9			V
Output voltage low-level	V_{OL}	$V_{CC} = -5\text{ V}$, $V_B = -2.5\text{ V}$, $R_L = 1\text{ k}\Omega$			- 0.2	V
Input resistance	R_i		-30%	10	+30%	$\text{k}\Omega$
Resistance ratio	R_1 / R_2		0.8	1.0	1.2	—
Transition frequency	f_T	$V_{CB} = -10\text{ V}$, $I_E = 1\text{ mA}$, $f = 200\text{ MHz}$		80		MHz

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



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