

SANYO	No.3182B	2SA1766
		PNP Epitaxial Planar Silicon Transistor High h_{FE} , Low-Frequency General-Purpose Amp Applications

Features

- Adoption of FBET, MBIT processes
- High DC current gain ($h_{FE} = 500$ to 1200)
- Large current capacity
- Low collector-to-emitter saturation voltage
- High V_{EBO}

Absolute Maximum Ratings at $T_a = 25^\circ C$

			unit
Collector to Base Voltage	V_{CBO}	-30	V
Collector to Emitter Voltage	V_{CEO}	-25	V
Emitter to Base Voltage	V_{EBO}	-15	V
Collector Current	I_C	-300	mA
Collector Current(Pulse)	I_{CP}	-500	mA
Base Current	I_B	-60	mA
Collector Dissipation	P_C Mounted on ceramic board ($250mm^2 \times 0.8mm$)	1.3	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to +150	$^\circ C$

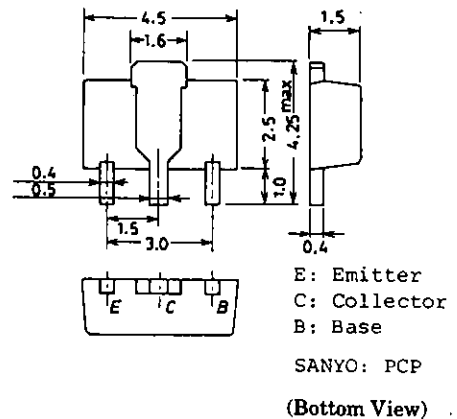
Electrical Characteristics at $T_a = 25^\circ C$

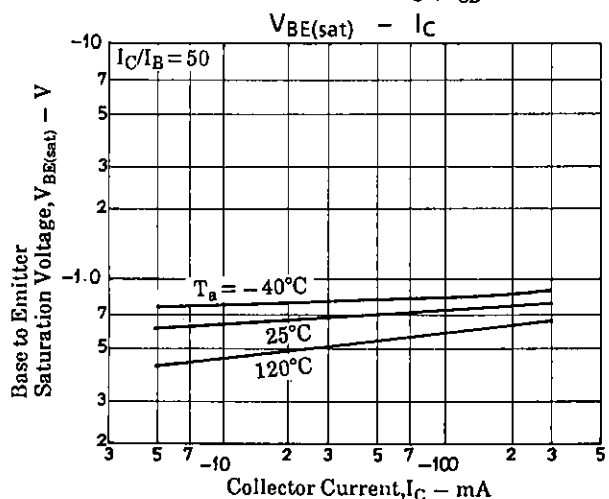
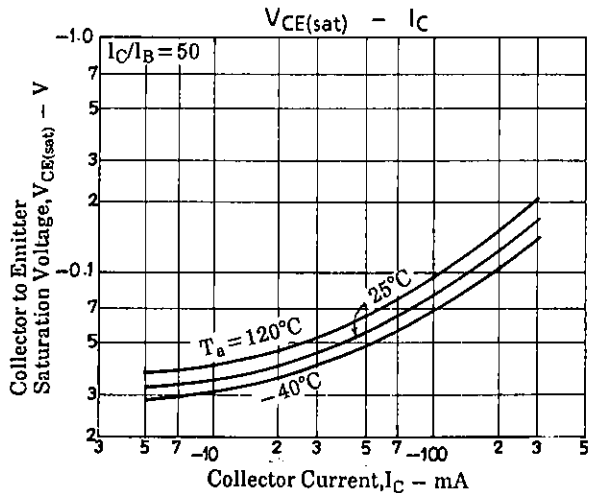
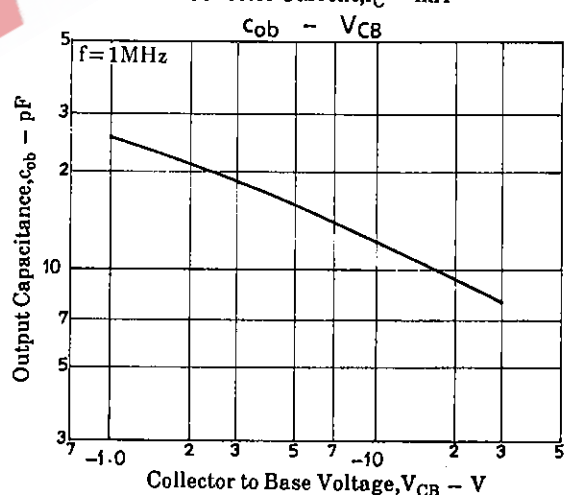
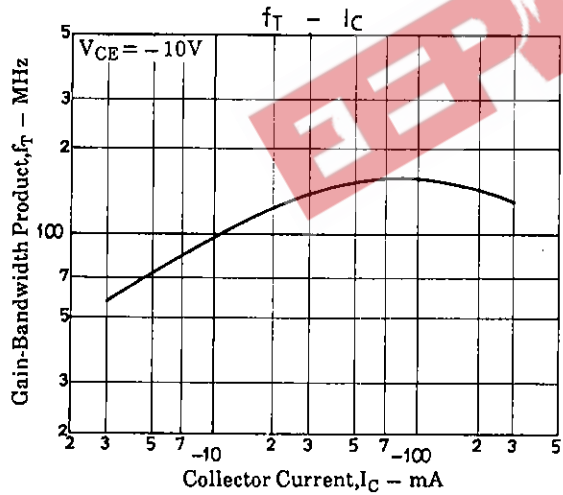
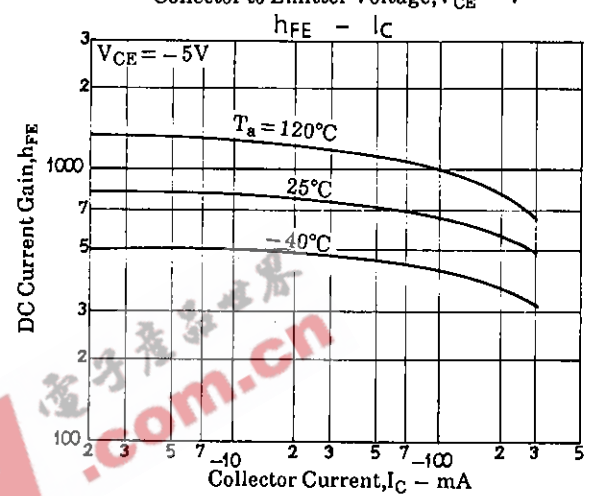
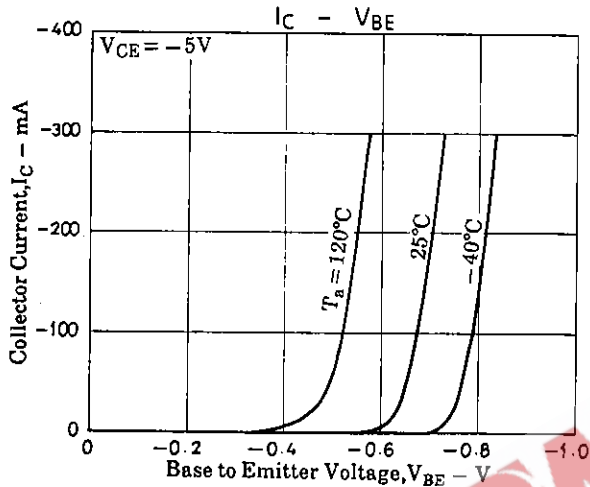
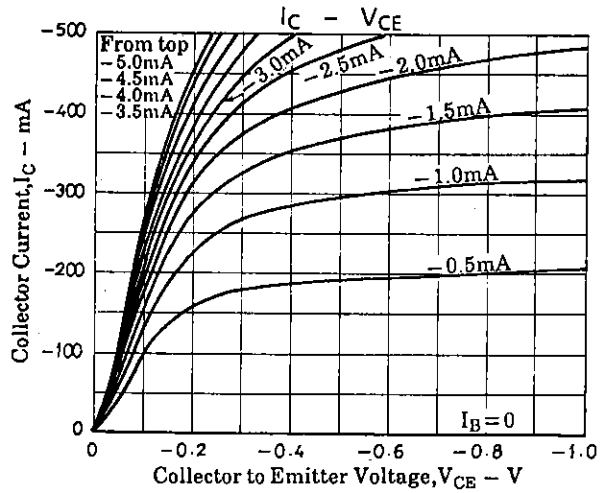
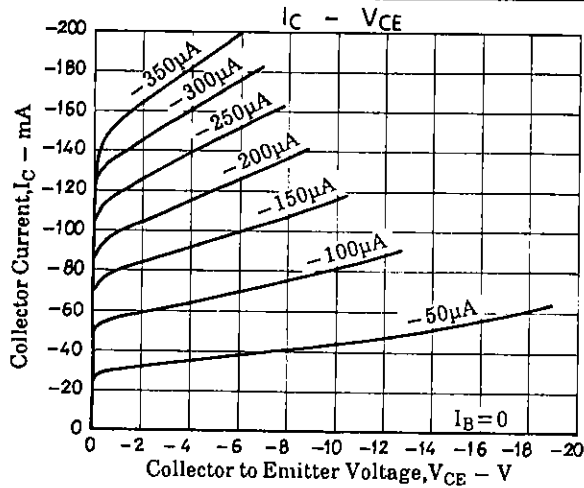
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = -20V, I_E = 0$			-0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -10V, I_C = 0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -5V, I_C = -10mA$	500	800	1200	
	$h_{FE(2)}$	$V_{CE} = -5V, I_C = -200mA$	200			
Gain-Bandwidth Product	f_T	$V_{CE} = -10V, I_C = -10mA$		100		MHz
Output Capacitance	C_{ob}	$V_{CB} = -10V, f = 1MHz$		12		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = -200mA, I_B = -4mA$	-0.12		-0.50	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = -200mA, I_B = -4mA$	-0.77		-1.10	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-30			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1mA, R_{BE} = \infty$	-25			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-15			V

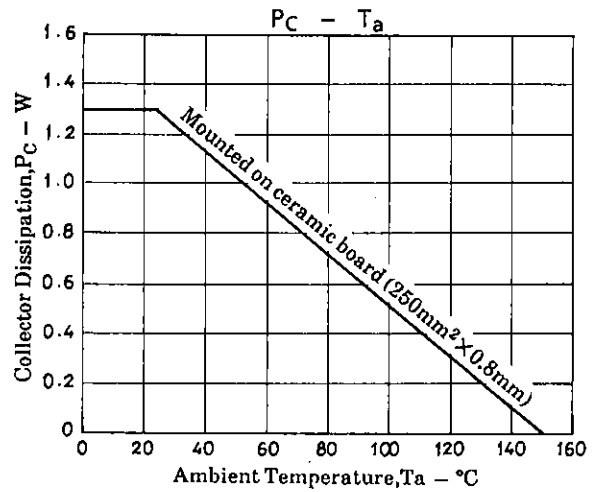
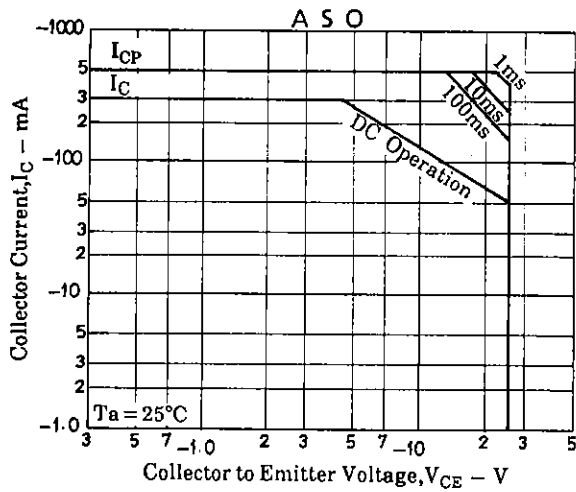
Marking : AL

Package Dimensions 2038

(unit : mm)







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