

<b>SANYO</b>	No.3236	<b>2SB1405</b>
		PNP Epitaxial Planar Silicon Transistor General Driver Applications

**Features**

- Darlington connection
- High DC current gain
- Large current capacity, wide ASO

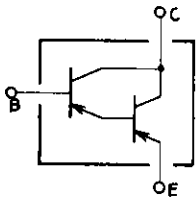
**Absolute Maximum Ratings at Ta = 25°C**

			unit
Collector to Base Voltage	$V_{CBO}$	-80	V
Collector to Emitter Voltage	$V_{CEO}$	-50	V
Emitter to Base Voltage	$V_{EBO}$	-10	V
Collector Current	$I_C$	-0.7	A
Collector Current(Pulse)	$I_{CP}$	-2	A
Collector Dissipation	$P_C$	1	W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 to +150	°C

**Electrical Characteristics at Ta = 25°C**

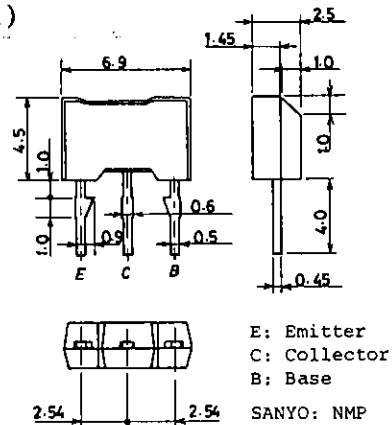
			min	typ	max	unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = -40V, I_E = 0$			-100	nA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = -8V, I_C = 0$			-100	nA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -2V, I_C = -50mA$	5000			
	$h_{FE(2)}$	$V_{CE} = -2V, I_C = -500mA$	3000			
Gain-Bandwidth Product	$f_T$	$V_{CE} = -5V, I_C = -50mA$		170		MHz
Output Capacitance	$c_{ob}$	$V_{CB} = -10V, f = 1MHz$		18		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -0.1mA$	-0.8		-1.2	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = -100mA, I_B = -0.1mA$	-1.4		-2.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-80			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1mA, R_{BE} = \infty$	-50			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-10			V

**Electrical Connection**

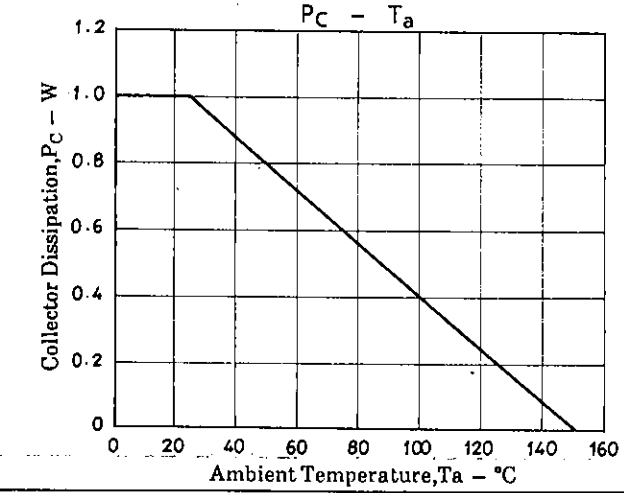
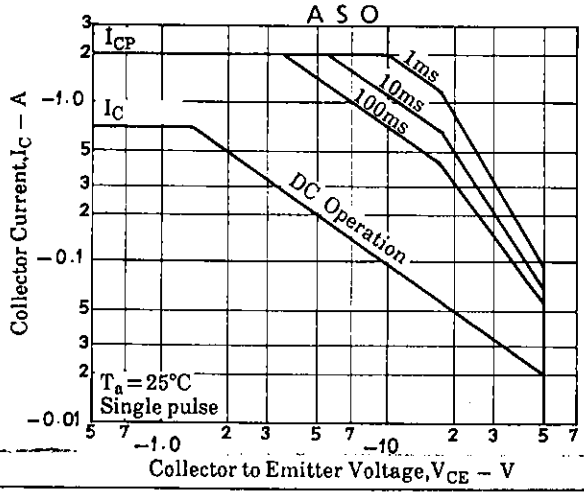
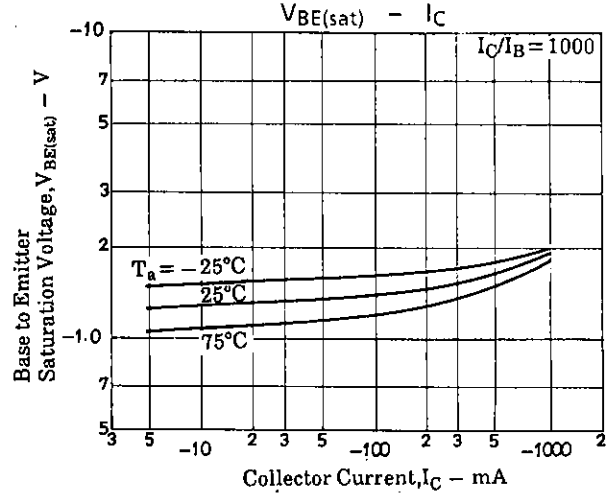
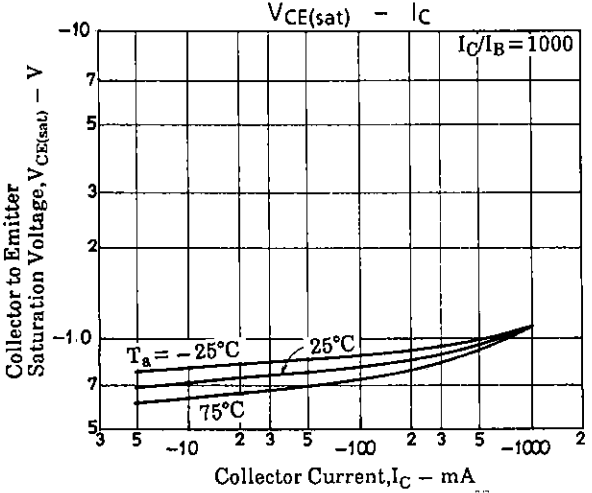
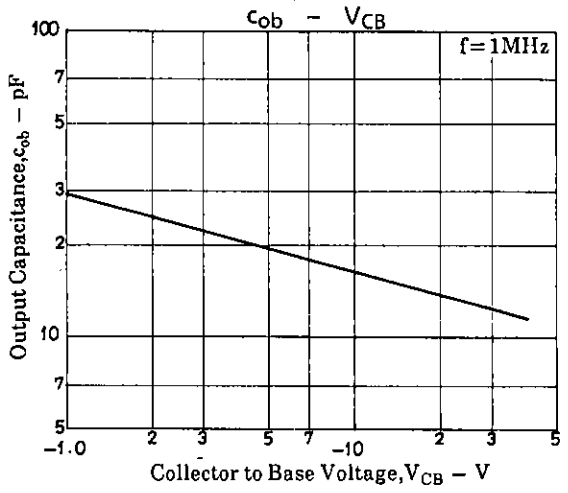
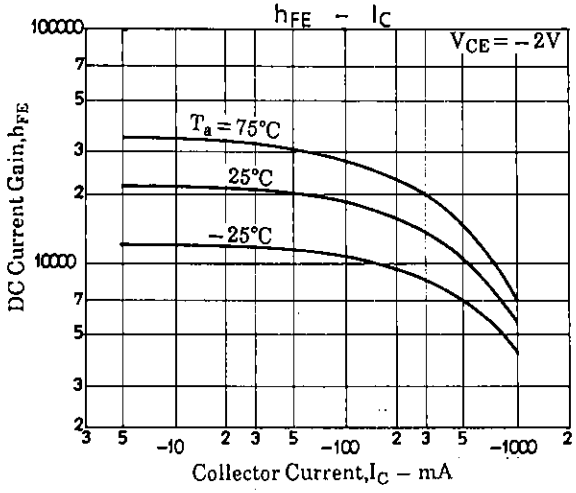
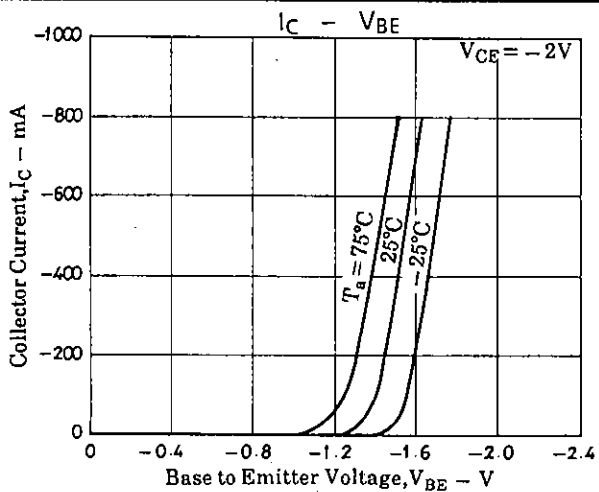
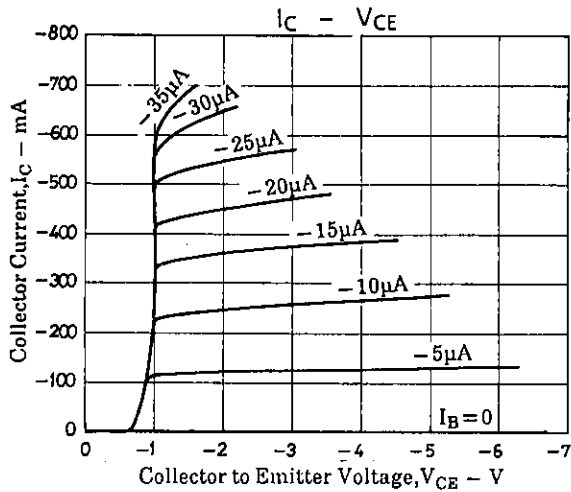


**Package Dimensions 2064**

(unit: mm)



2SB1405



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