

SANYO

No. 3470

2SB1406

PNP Epitaxial Planar Silicon Darlington Transistor

Driver Applications

Applications

- Relay drivers, hammer drivers, lamp drivers, motor drivers

Features

- Darlington connection
- High DC current gain
- Large current capacity

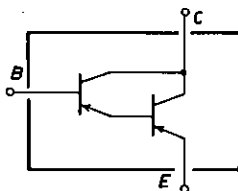
Absolute Maximum Ratings at Ta = 25°C

			unit
Collector to Base Voltage	V _{CB0}	-80	V
Collector to Emitter Voltage	V _{CE0}	-50	V
Emitter to Base Voltage	V _{EB0}	-10	V
Collector Current	I _C	-1.5	A
Collector Current(Pulse)	I _{CP}	-3	A
Collector Dissipation	P _C	1	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

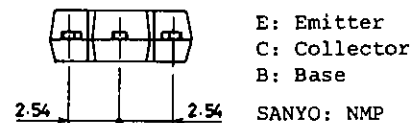
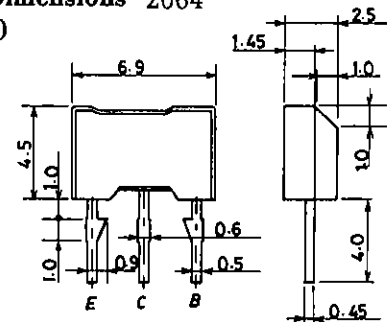
Electrical Characteristics at Ta = 25°C

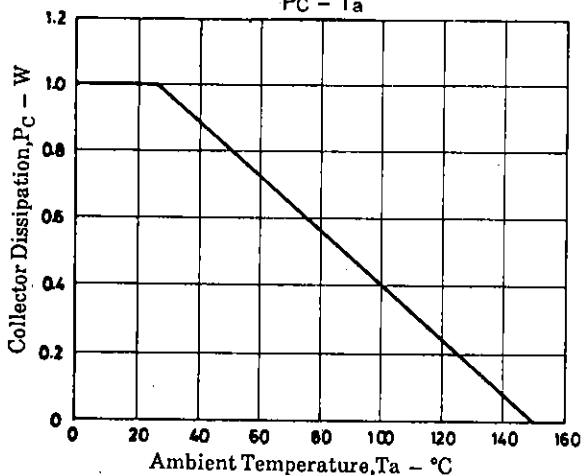
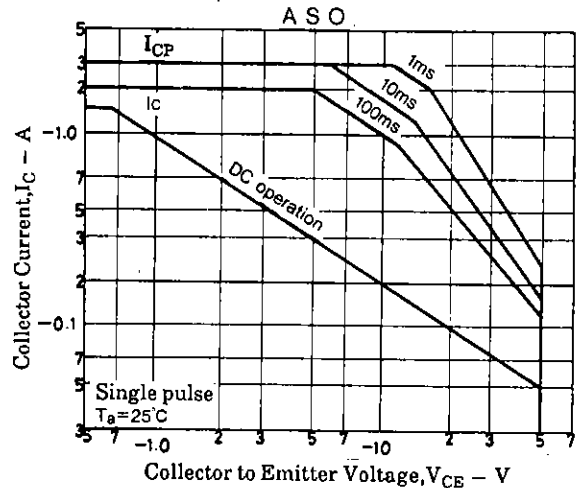
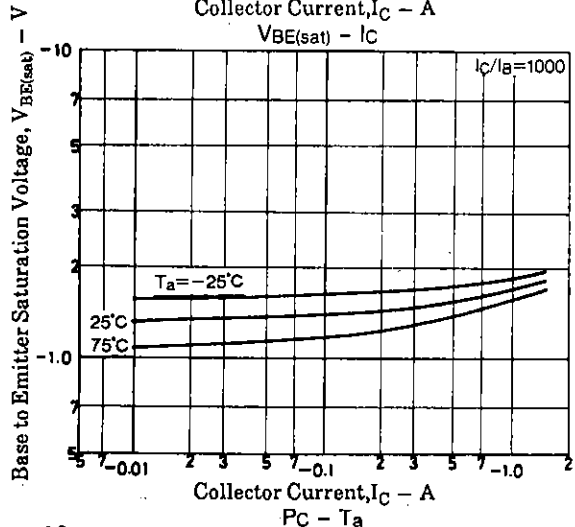
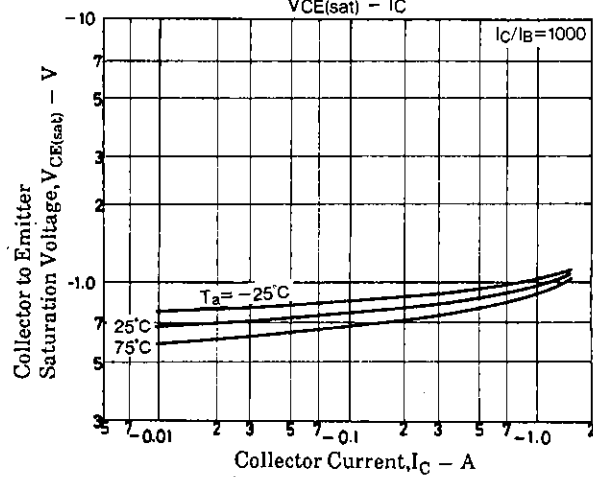
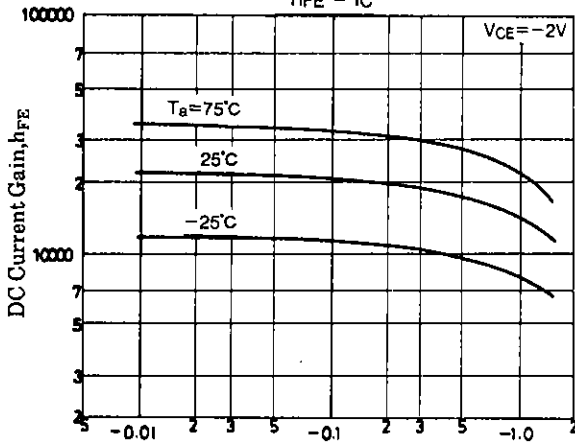
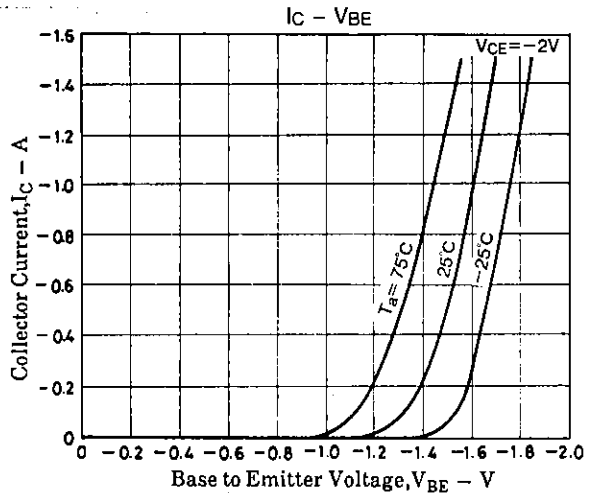
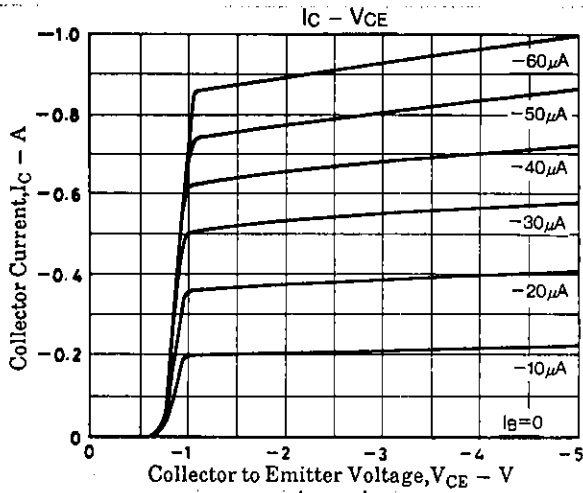
			min	typ	max	unit
Collector Cutoff Current	I _{CB0}	V _{CB} = -40V, I _E = 0			-100	nA
Emitter Cutoff Current	I _{EB0}	V _{EB} = -6V, I _C = 0			-100	nA
DC Current Gain	h _{FE} (1)	V _{CE} = -2V, I _C = -500mA	4000			
	h _{FE} (2)	V _{CE} = -2V, I _C = -10mA	3000			
Gain-Bandwidth Product	f _T	V _{CE} = -10V, I _C = -50mA		120		MHz
C-E Saturation Voltage	V _{CE(sat)}	I _C = -500mA, I _B = -0.5mA	-0.9	-1.5		V
B-E Saturation Voltage	V _{BE(sat)}	I _C = -500mA, I _B = -0.5mA	-1.5	-2.0		V
C-B Breakdown Voltage	V _{(BR)CBO}	I _C = -10μA, I _E = 0	-80			V
C-E Breakdown Voltage	V _{(BR)CEO}	I _C = -1mA, R _{BE} = ∞	-50			V
E-B Breakdown Voltage	V _{(BR)EBO}	I _E = -10μA, I _C = 0	-10			V

Electrical Characteristics



Package Dimensions 2064 (unit: mm)





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