

SANYO	No.2534	2SD1981
	NPN Epitaxial Planar Silicon Darlington Transistor	
Driver Applications		

Applications

- . Motor drivers, printer hammer drivers, relay drivers, voltage regulator control

Features

- . Darlington connection (on-chip bias resistance, damper diode)
- . High DC current gain
- . Low dependence of DC current gain on temperature

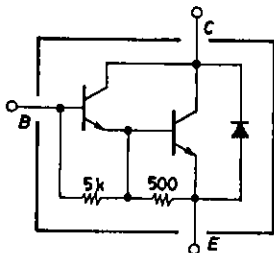
Absolute Maximum Ratings at Ta=25°C

			unit
Collector to Base Voltage	V _{CB0}	100	V
Collector to Emitter Voltage	V _{CE0}	80	V
Emitter to Base Voltage	V _{EBO}	6	V
Collector Current	I _C	2	A
Collector Current(Pulse)	I _{CP}	4	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} =60V, I _E =0			10	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			2.5	mA
DC Current Gain	h _{FE} (1)	V _{CE} =3V, I _C =500mA	1000			
	h _{FE} (2)	V _{CE} =3V, I _C =1A	2000	7000	30000	
C-E Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =2mA		1.0	1.5	V
B-E Saturation Voltage	V _{BE(sat)}	I _C =1A, I _B =2mA		1.6	2.0	V
C-B Breakdown Voltage	V(BR)CBO	I _C =100μA, I _E =0	100			V
C-E Breakdown Voltage	V(BR)CEO	I _C =25mA, R _{BE} =∞	80			V

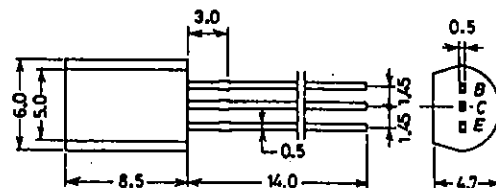
Electrical Connection



Unit(Resistance : Ω)

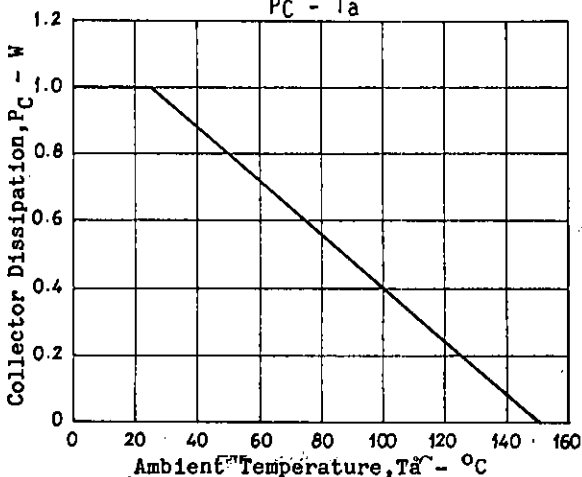
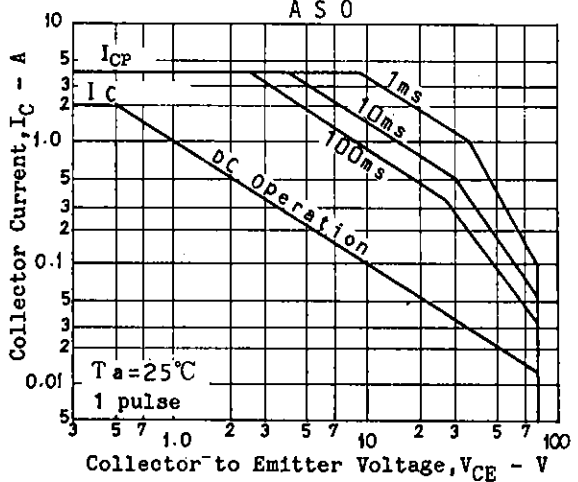
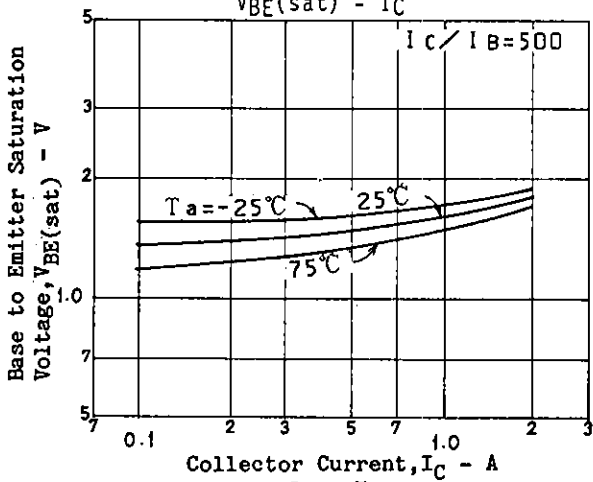
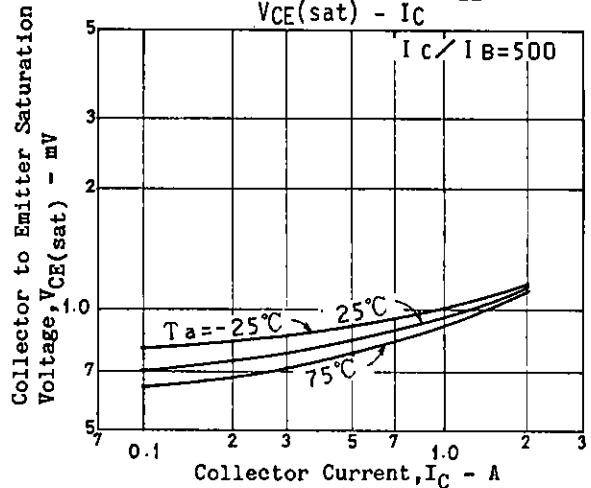
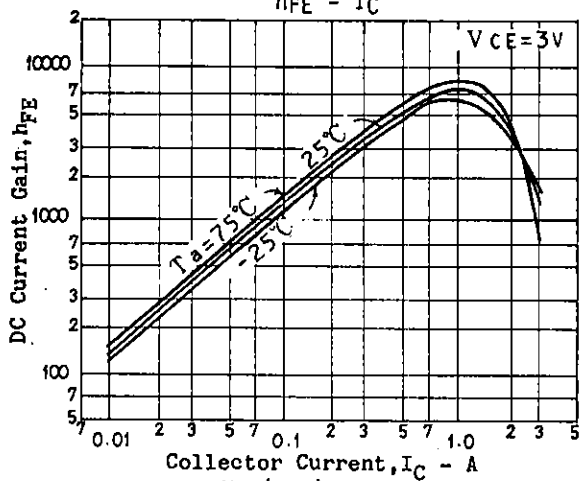
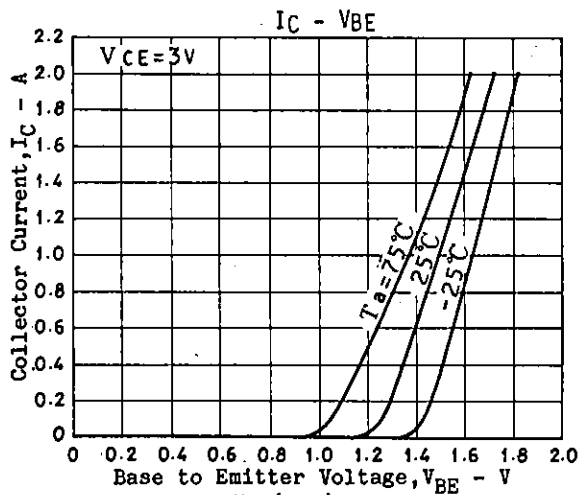
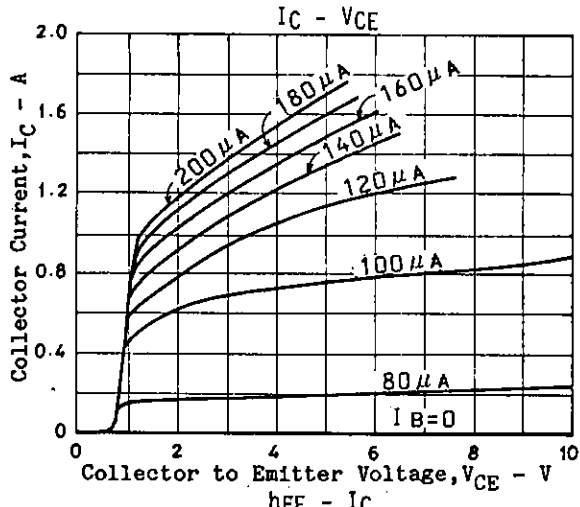
Package Dimensions 2006A

(unit: mm)



EIAJ: SC-51
SANYO:MP

B: Base
C: Collector
E: Emitter



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