

SANYO	No.2553A	2SB1234/2SD1851
	PNP/NPN Epitaxial Planar Silicon Transistors	
Driver Applications		

Features

- . AF amp, solenoid drivers, LED drivers
- . Darlington connection
- . High DC current gain
- . Very small-sized package permitting sets to be made smaller and slimer

(): 2SB1234

Absolute Maximum Ratings at Ta=25°C

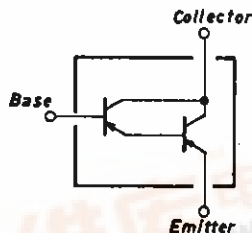
			unit
Collector to Base Voltage	V _{CB0}	(-)80	V
Collector to Emitter Voltage	V _{CEO}	(-)50	V
Emitter to Base Voltage	V _{EBO}	(-)10	V
Collector Current	I _C	(-)200	mA
Collector Current(Pulse)	I _{CP}	(-)400	mA
Collector Dissipation	P _C	200	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Collector Cutoff Current	I _{CB0}	V _{CB} =(-)60V, 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 =(-)10mA	5000			
	h _{FE} (2)	V _{CE} =(-)2V, I _C =(-)100mA	4000			
			(3000)			
C-E Saturation Voltage	V _{CE(sat)}	I _C =(-)100mA, I _B =(-)100μA		(-)0.9	(-)1.5	V
B-E Saturation Voltage	V _{BE(sat)}	I _C =(-)100mA, I _B =(-)100μA		(-)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

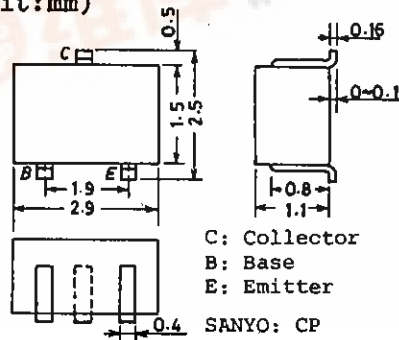
Marking 2SB1234: PL
2SD1851: XY

Electrical Connection

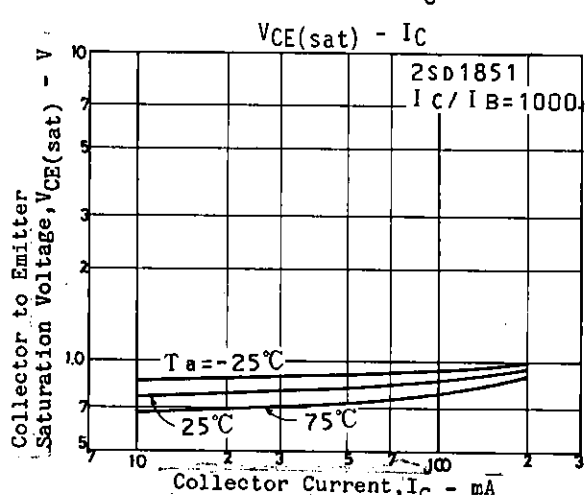
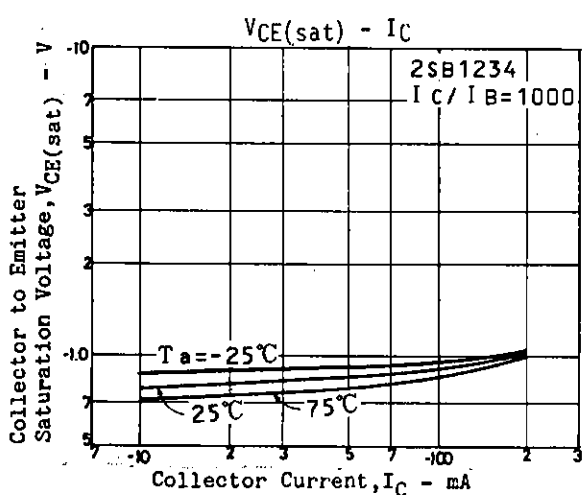
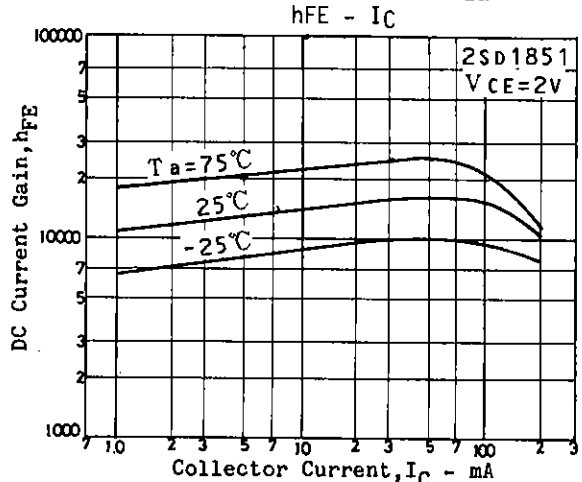
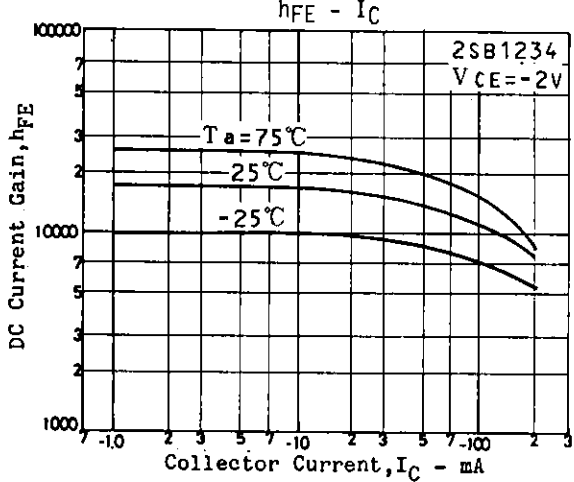
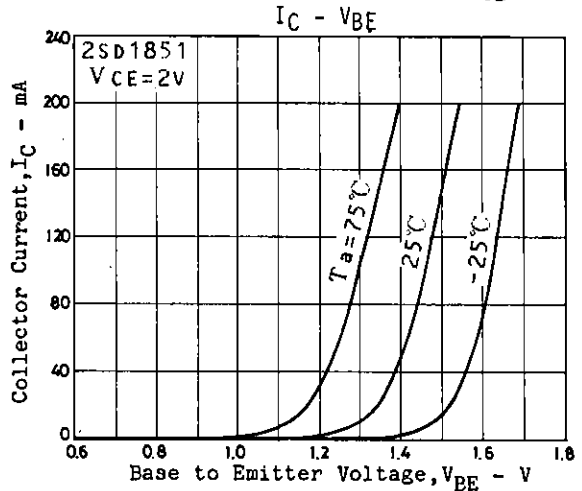
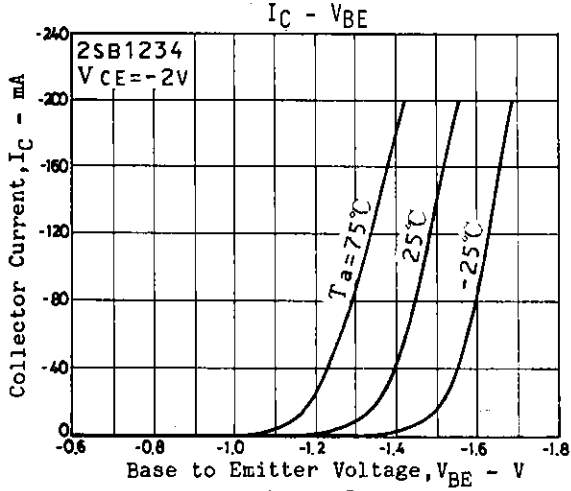
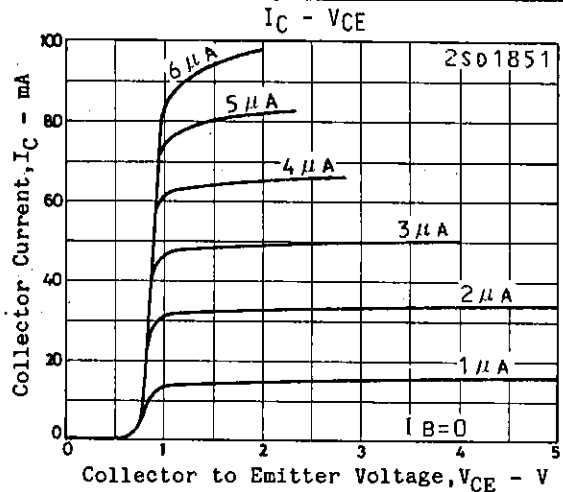
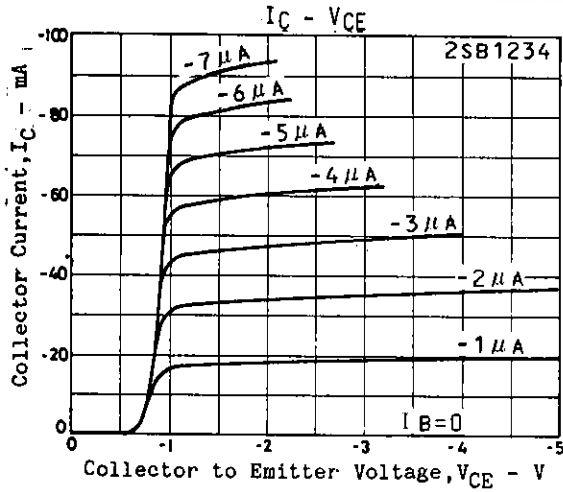


(For NPN, the polarity is reversed.)

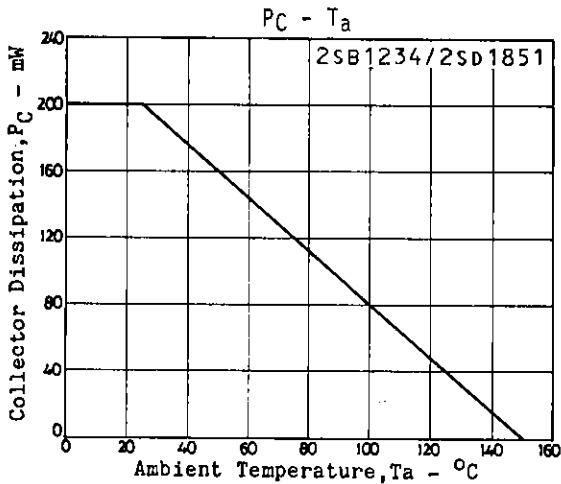
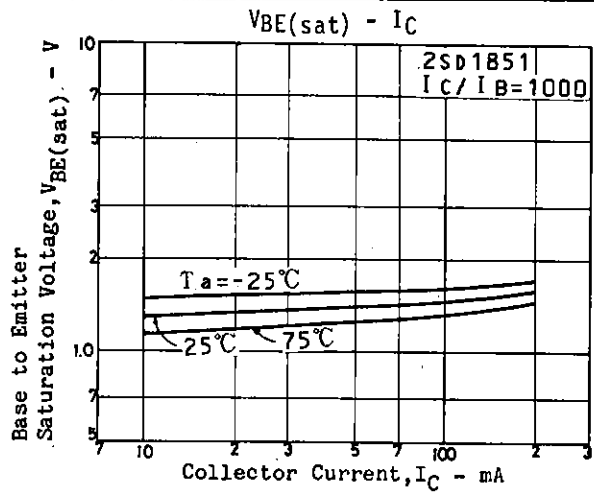
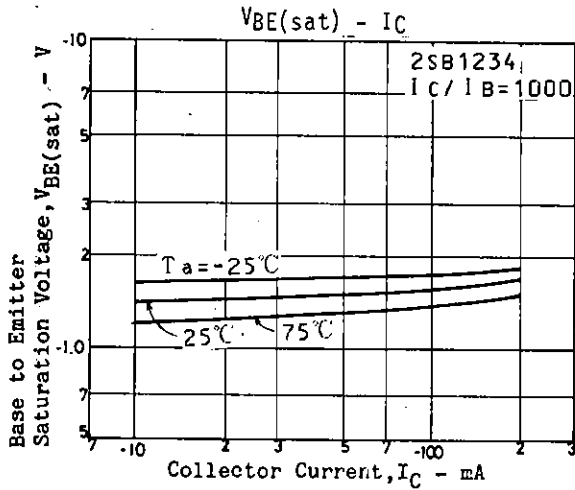
Package Dimensions 2018A (unit:mm)



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