

<b>SANYO</b>	No.2553A	<b>2SB1234/2SD1851</b>
		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**

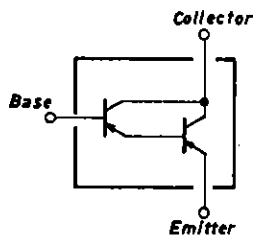
			unit
Collector to Base Voltage	$V_{CBO}$	(-)80	V
Collector to Emitter Voltage	$V_{CEO}$	(-)50	V
Emitter to Base Voltage	$V_{EBO}$	(-)10	V
Collector Current	$I_C$	(-)200	mA
Collector Current(Pulse)	$I_{CP}$	(-)400	mA
Collector Dissipation	$P_C$	200	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 to +150	°C

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

			min	typ	max	unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=(-)60V, I_E=0$			(-)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	$V_{CE}(sat)$	$I_C=(-)100mA, I_B=(-)100\mu A$		(-)0.9	(-)1.5	V
B-E Saturation Voltage	$V_{BE}(sat)$	$I_C=(-)100mA, I_B=(-)100\mu A$		(-)1.5	(-)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

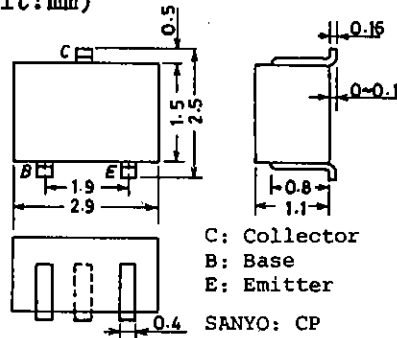
Marking 2SB1234:PL  
2SD1851:XY

**Electrical Connection**

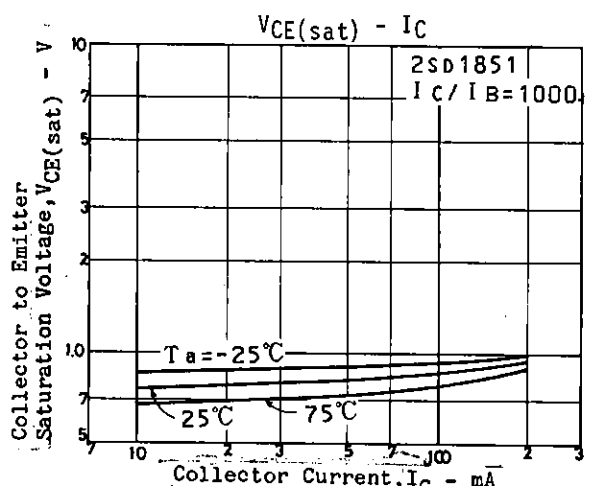
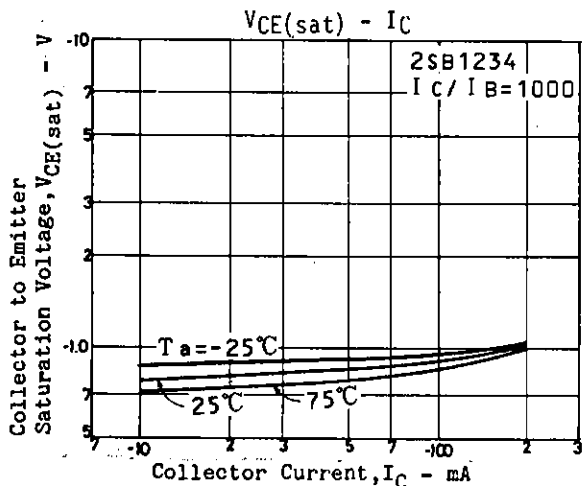
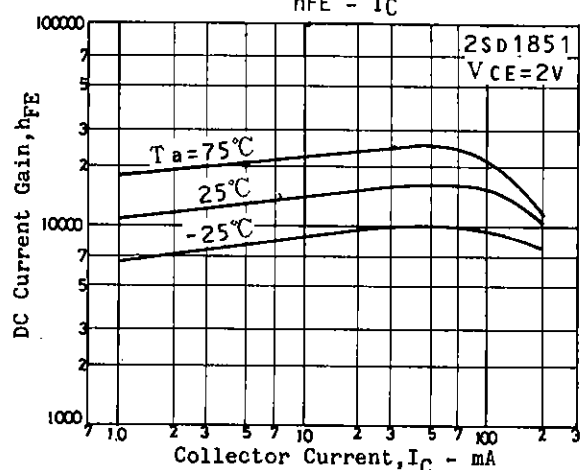
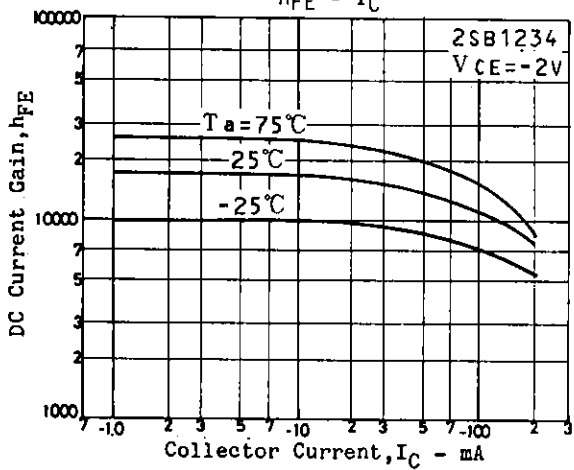
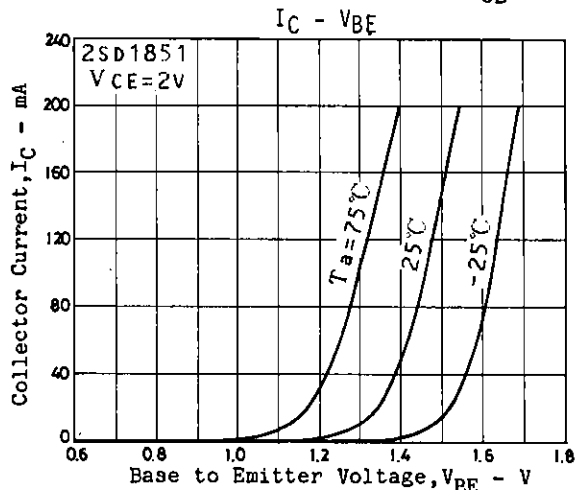
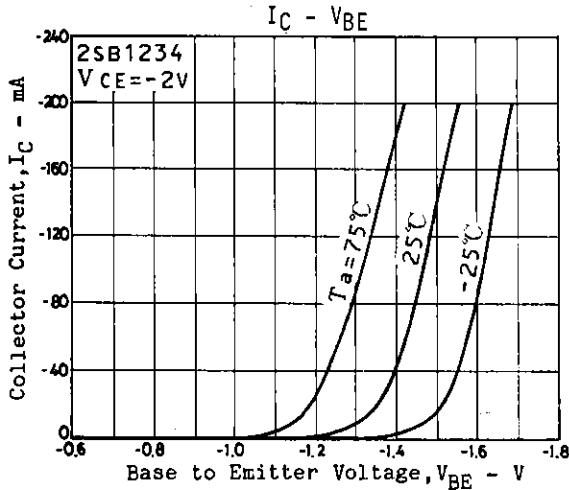
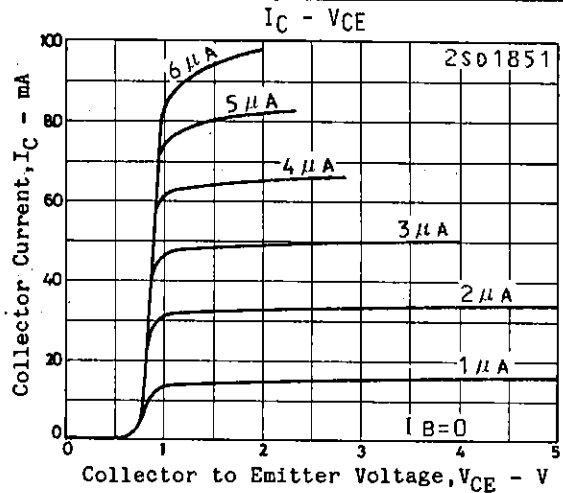
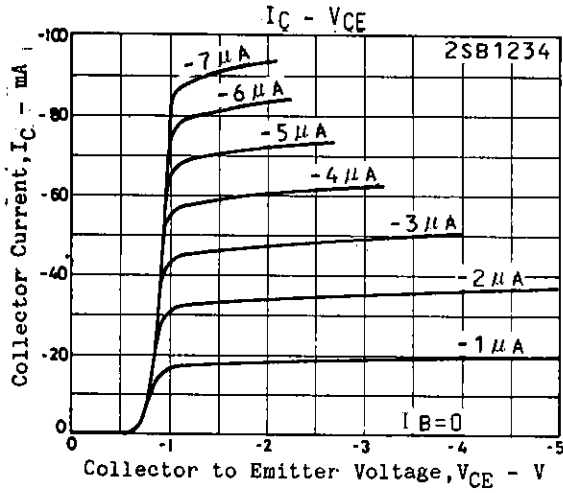


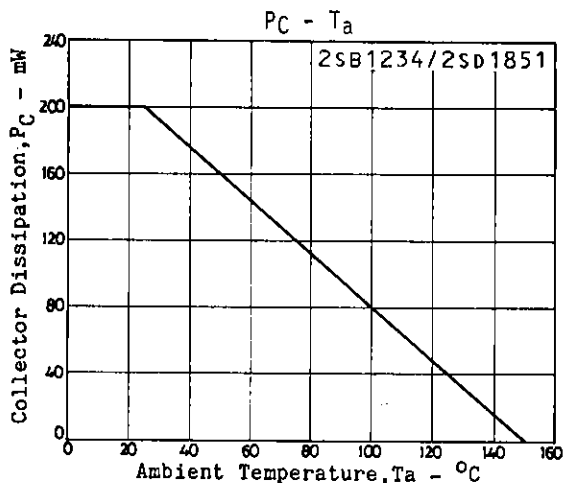
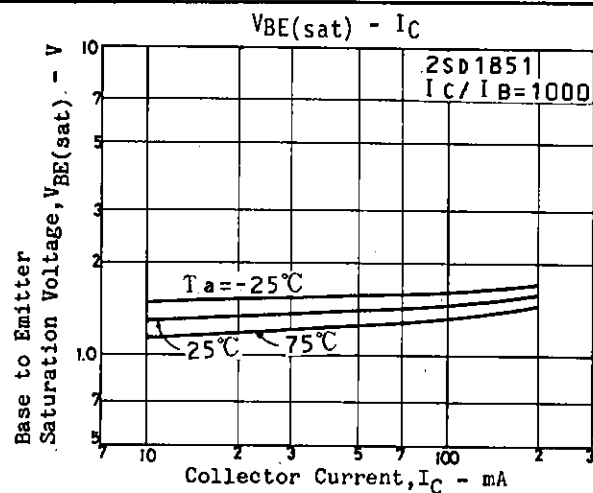
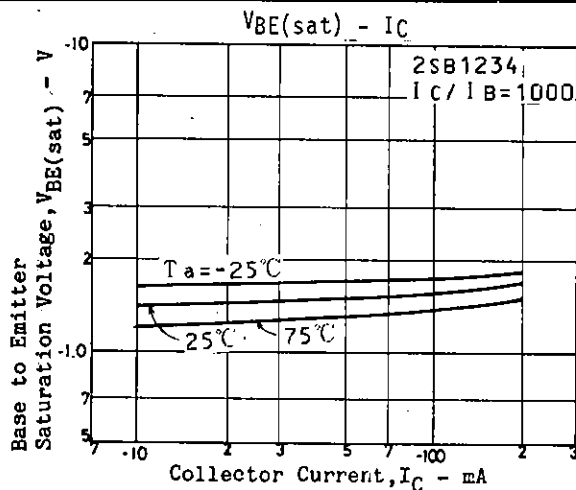
(For NPN, the polarity is reversed.)

**Package Dimensions 2018A**  
(unit:mm)



2SB1234/2SD1851





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