



2SB884/2SD1194

Driver Applications

Applications

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

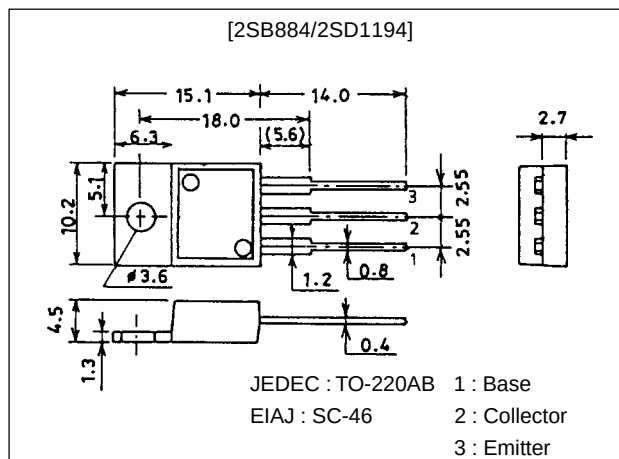
Features

- High DC current gain.
- High current capacity and wide ASO.
- Low saturation voltage.

Package Dimensions

unit:mm

2010C



() : 2SB884

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		(-)110	V
Collector-to-Emitter Voltage	V_{CEO}		(-)100	V
Emitter-to-Base Voltage	V_{EBO}		(-)6	V
Collector Current	I_C		(-)3	A
Collector Current (Pulse)	I_{CP}		(-)5	A
Collector Dissipation	P_C		1.75	W
		Tc=25°C	30	W
Junction Temperature	T_J		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=(-)80V, I_E=0$			(-)0.1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=(-)5V, I_C=0$			(-)3	mA
DC Current Gain	h_{FE}	$V_{CE}=(-)3V, I_C=(-)1.5A$	1500	4000		
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)1.5A, I_B=(-)3mA$		0.9	(-)1.5	V
				(-1.0)		V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=(-)1.5A, I_B=(-)3mA$			(-)2.0	V
Gain-Bandwidth Product	f_T	$V_{CE}=(-)5V, I_C=(-)1.5A$		20		MHz

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SANYO Electric Co., Ltd. Semiconductor Business Headquarters

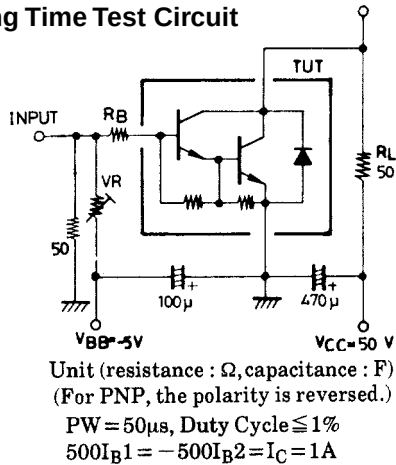
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91098HA (KT)/10996TS (KOTO) 8-4529/D251MH/4027KI/D222KI No.1018-1/4

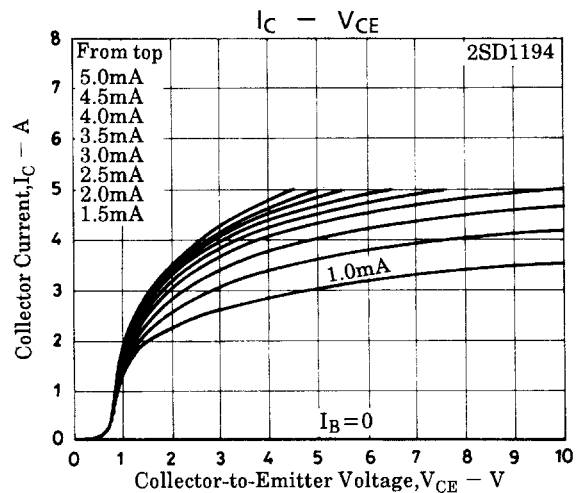
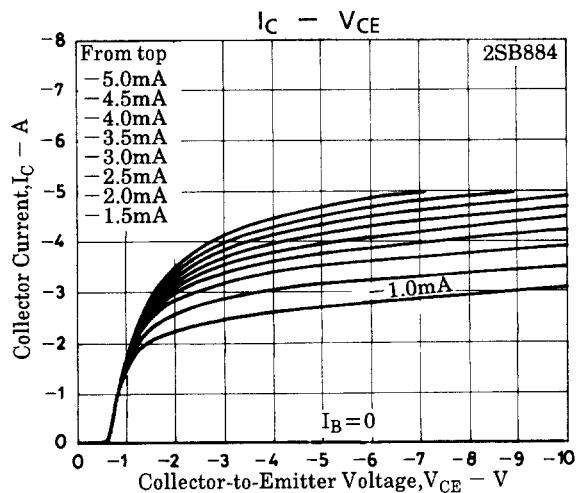
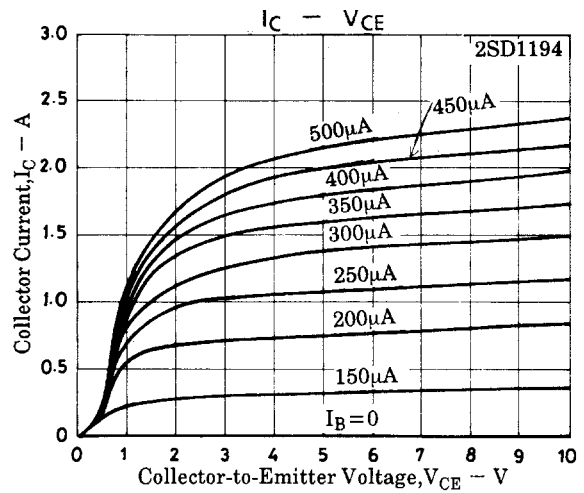
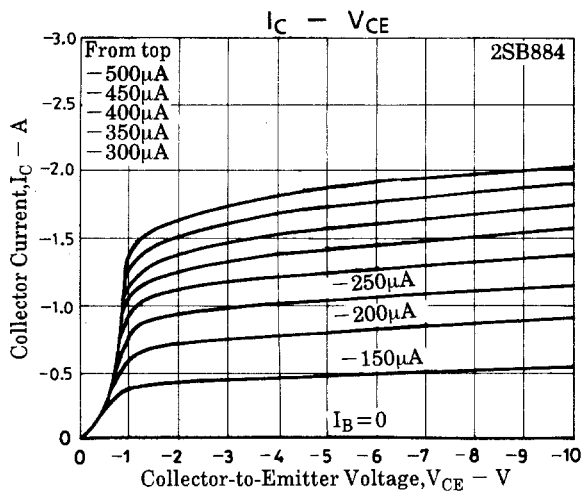
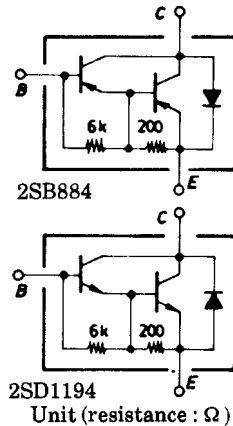
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = (-)5mA, I_E = 0$	(-)110			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = (-)50mA, R_{BE} = \infty$	(-)100			V
Turn-ON Time	t_{on}	See specified Test Circuit		(0.8)		μs
Storage Time	t_{stg}	See specified Test Circuit		0.7		μs
				(2.4)		μs
Fall Time	t_f	See specified Test Circuit		5.0		μs
				(1.2)		μs
				1.2		μs

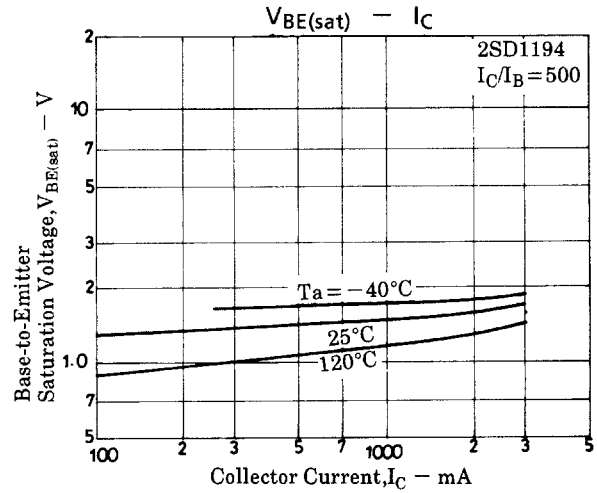
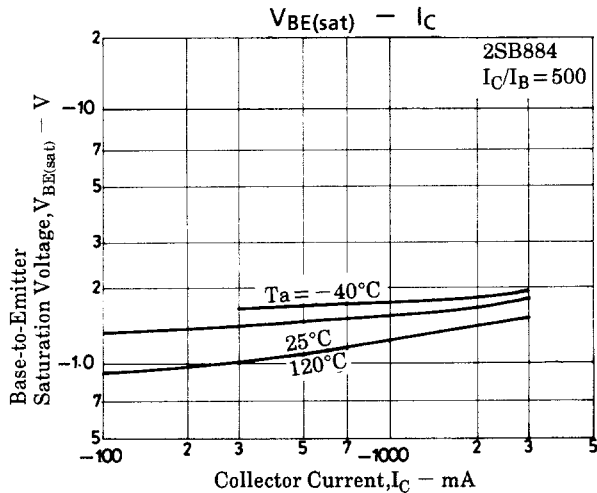
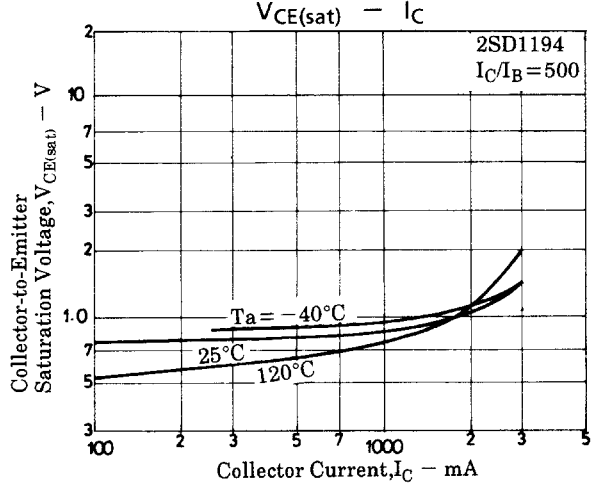
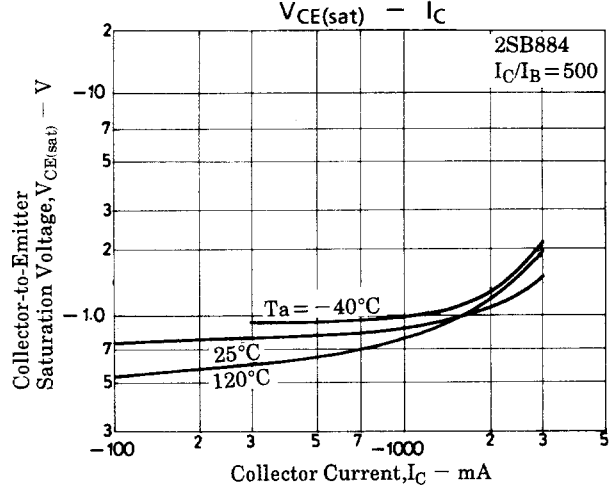
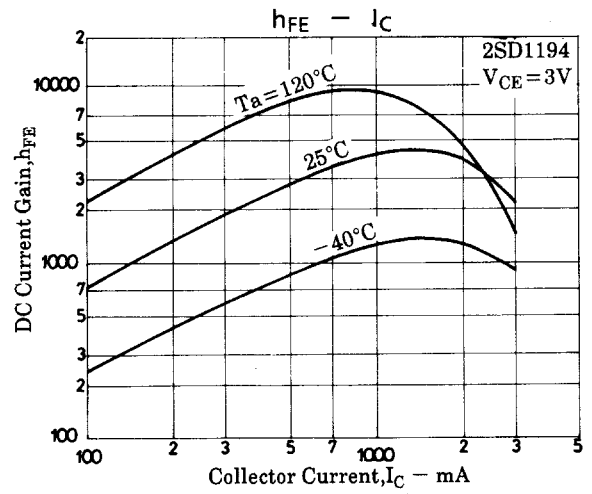
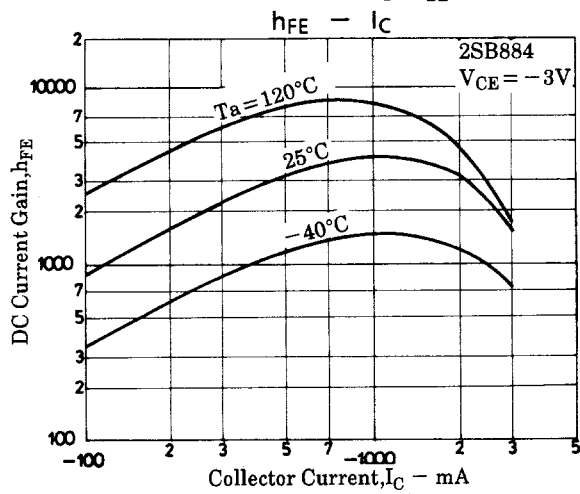
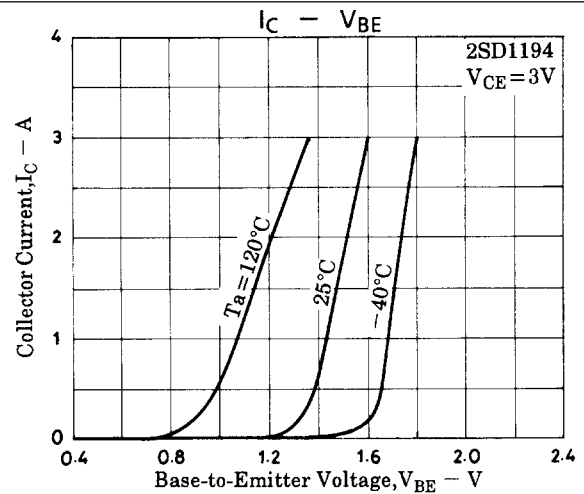
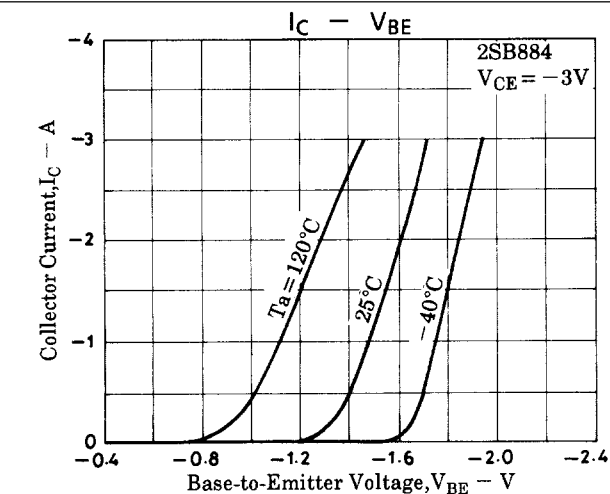
Switching Time Test Circuit

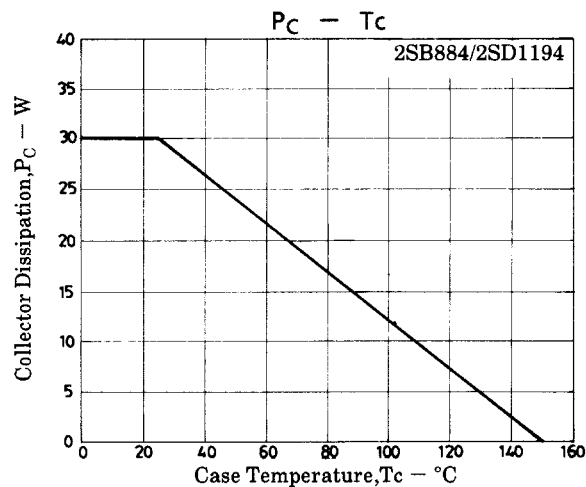
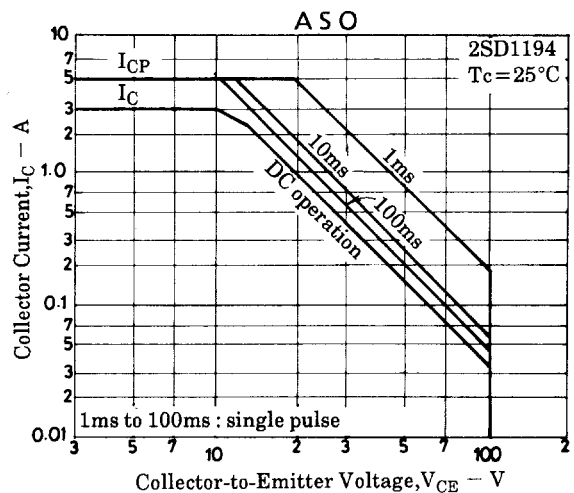
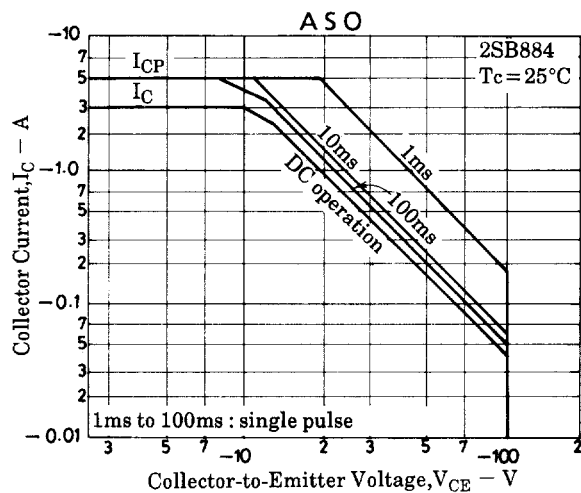


Electrical Connection



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