



2SB883/2SD1193

Driver Applications

Applications

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

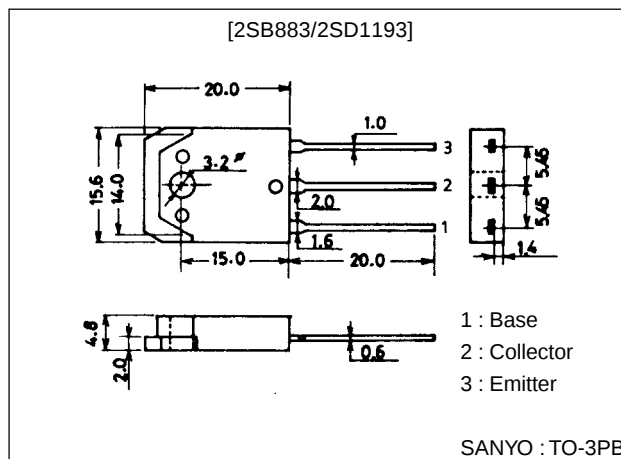
Features

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

Package Dimensions

unit:mm

2022A



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Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		(-)70	V
Collector-to-Emitter Voltage	V_{CEO}		(-)60	V
Emitter-to-Base Voltage	V_{EBO}		(-)6	V
Collector Current	I_C		(-)15	A
Collector Current (Pulse)	I_{CP}		(-)20	A
Collector Dissipation	P_C	$T_c=25^\circ\text{C}$	70	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}	$V_{CB}=(-)40\text{V}, I_E=0$			(-)0.1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=(-)5\text{V}, I_C=0$			(-)3	mA
DC Current Gain	h_{FE}	$V_{CE}=(-)2\text{V}, I_C=(-)7\text{A}$	2000	5000		
Gain-Bandwidth Product	f_T	$V_{CE}=(-)5\text{V}, I_C=(-)7\text{A}$		20		MHz
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)7\text{A}, I_B=(-)14\text{mA}$		0.9	(-)1.5	V
				(-)1.0		V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=(-)7\text{A}, I_B=(-)14\text{mA}$			(-)2.0	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=(-)5\text{mA}, I_E=0$	(-)70			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=(-)50\text{mA}, R_{BE}=\infty$	(-)60			V

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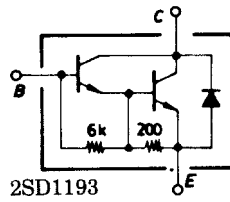
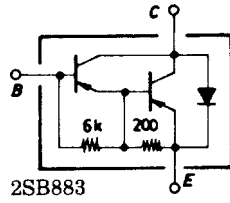
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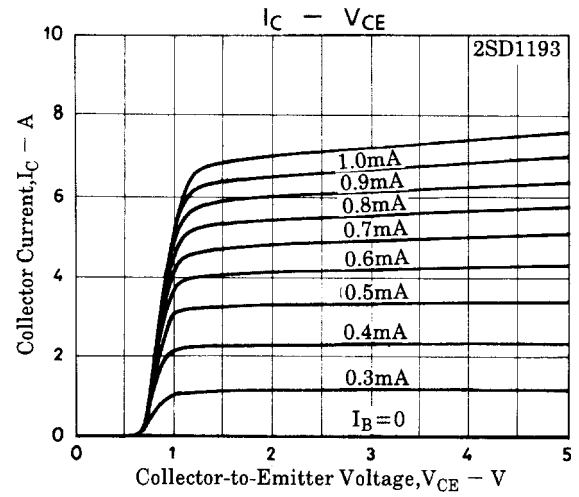
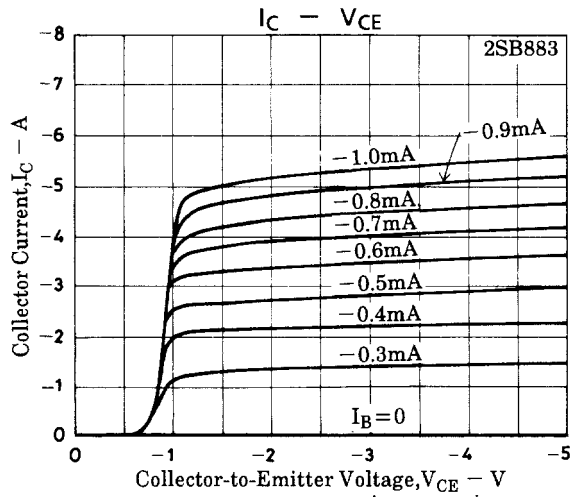
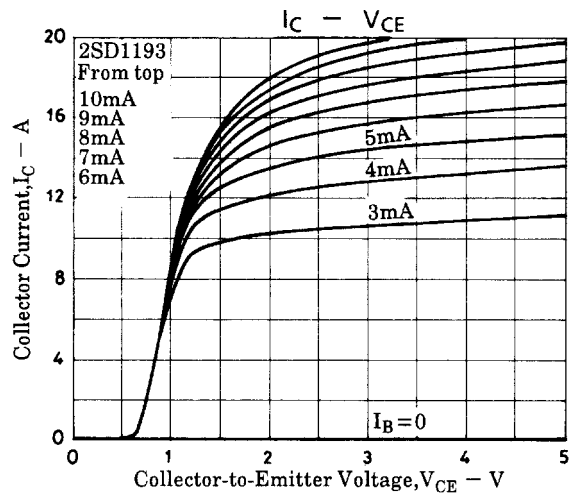
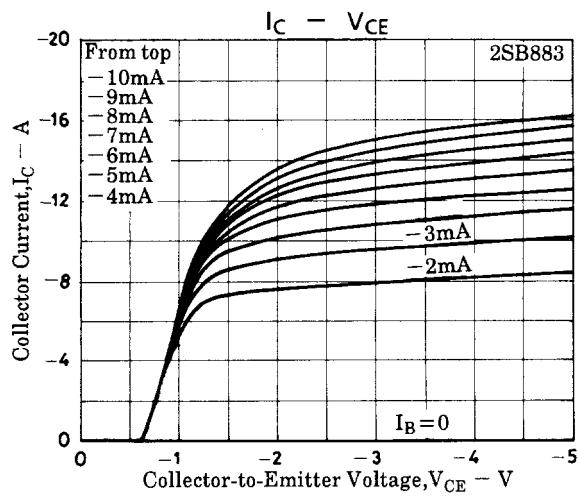
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91098HA (KT)/10996TS (KOTO) 8-4525/4027KI/D222KI No.1036-1/4

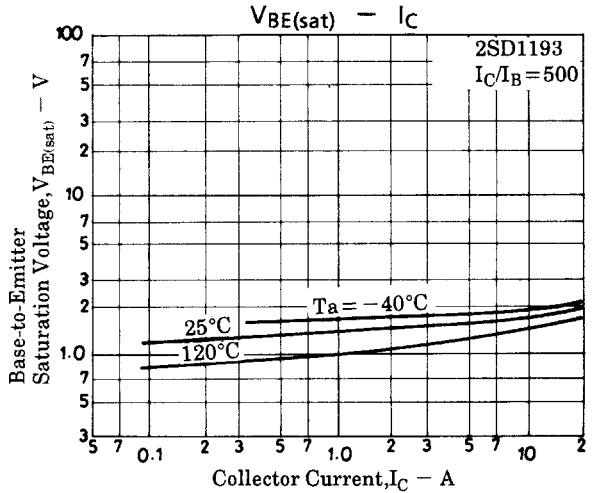
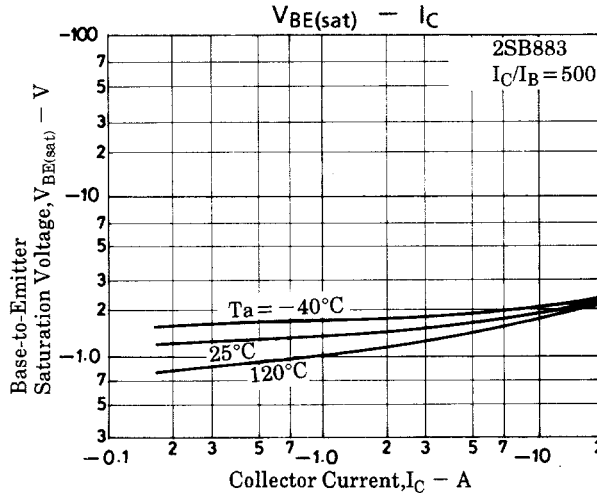
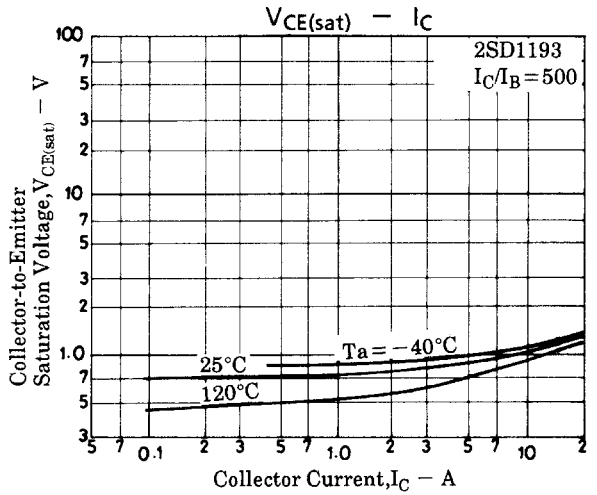
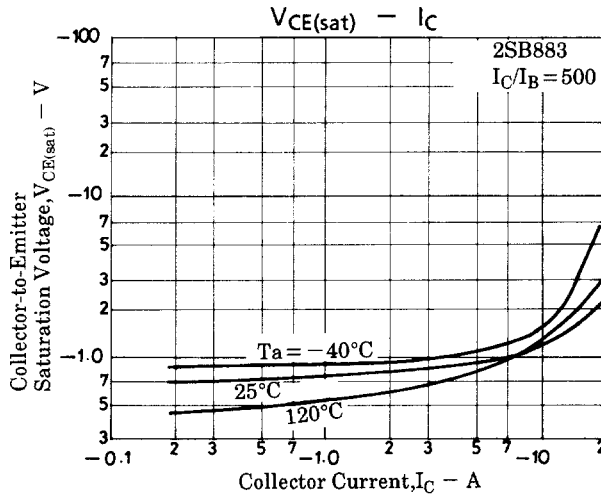
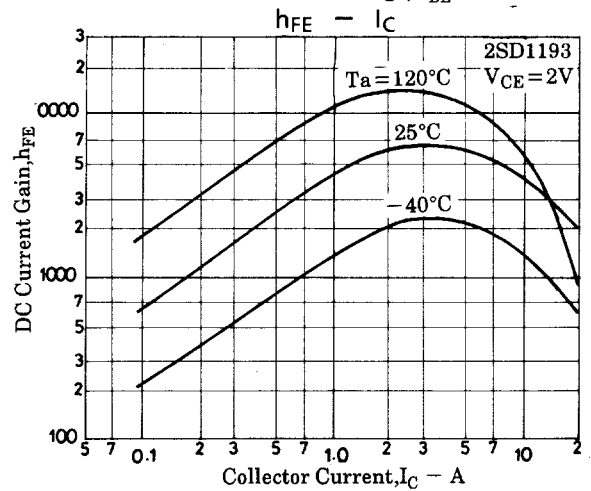
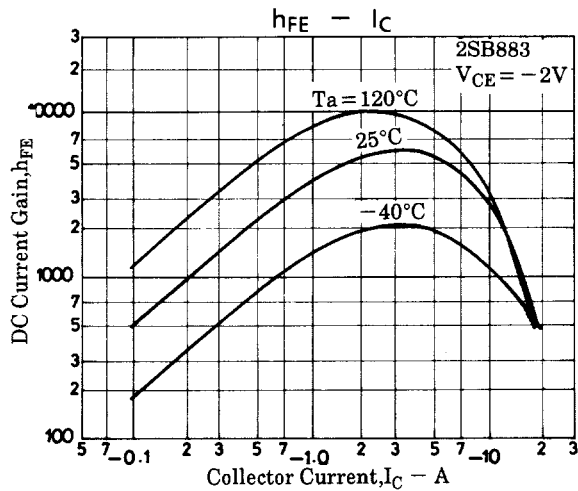
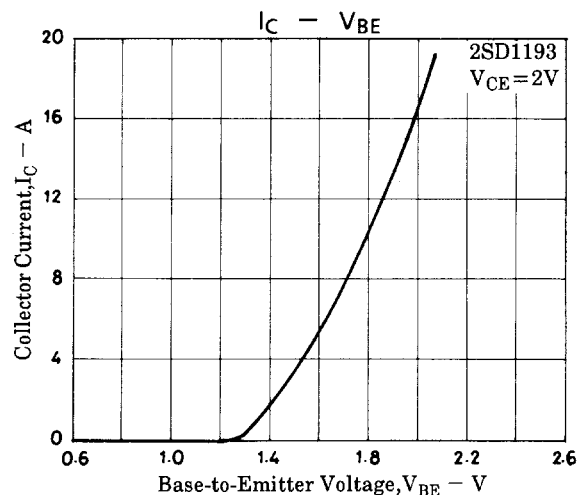
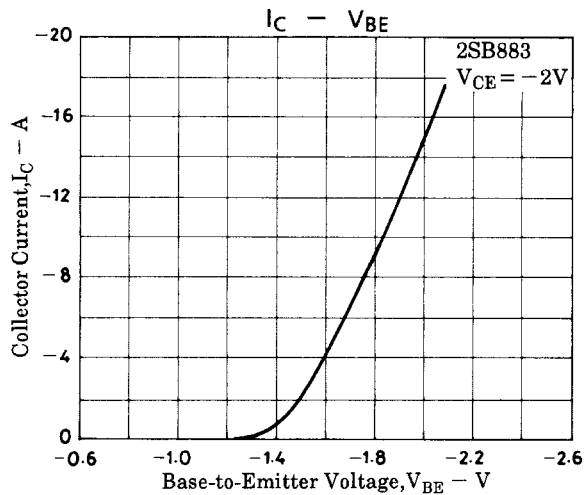
Electrical Connection

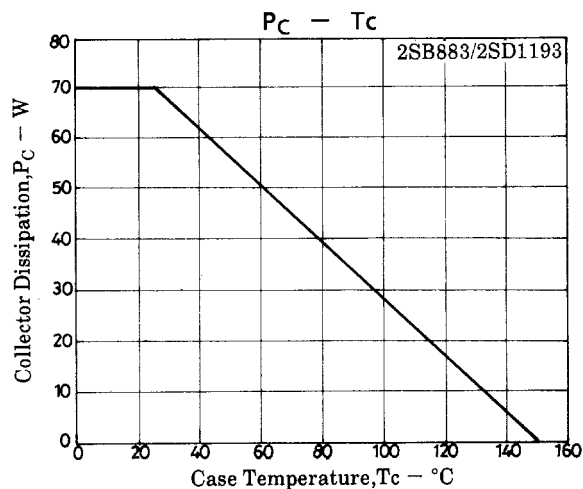
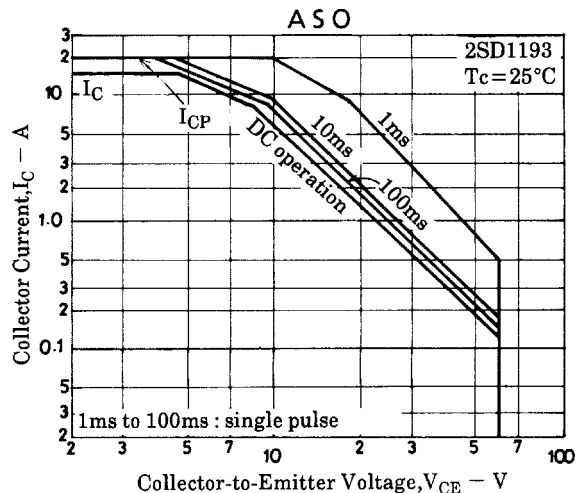
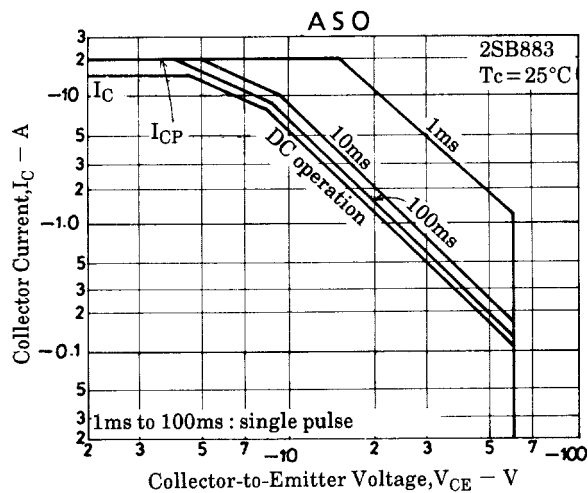


Unit (resistance : Ω)



2SB883/2SD1193





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