

SANYO	No.1036B	2SB883/2SD1193
	PNP/NPN Epitaxial Planar Silicon Darlington Transistors	
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.

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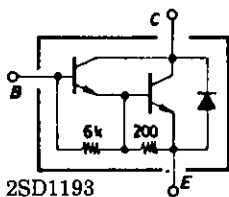
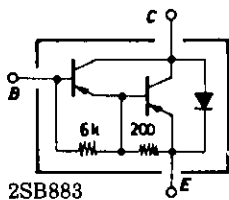
Absolute Maximum Ratings at Ta = 25°C

Collector-to-Base Voltage	V_{CB0}		(-)70	V	unit
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	$T_c = 25^\circ C$	70	W	
Junction Temperature	T_j		150	°C	
Storage Temperature	T_{stg}		-55 to +150	°C	

Electrical Characteristics at Ta = 25°C

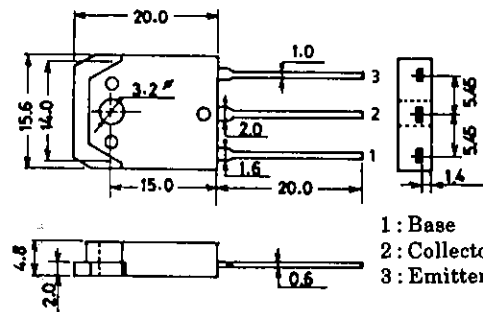
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)40V, I_E = 0$			(-)0.1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)5V, I_C = 0$			(-)3	mA
DC Current Gain	h_{FE}	$V_{CE} = (-)2V, I_C = (-)7A$	2000	5000		
Gain Bandwidth Product	f_T	$V_{CE} = (-)5V, I_C = (-)7A$		20		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)7A, I_B = (-)14mA$		0.9(-)1.5	V	
				(-1.0)		
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)7A, I_B = (-)14mA$		(-)2.0	V	
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = (-)5mA, I_E = 0$	(-)70			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = (-)50mA, R_{BE} = \infty$	(-)60			V

Electrical Connection

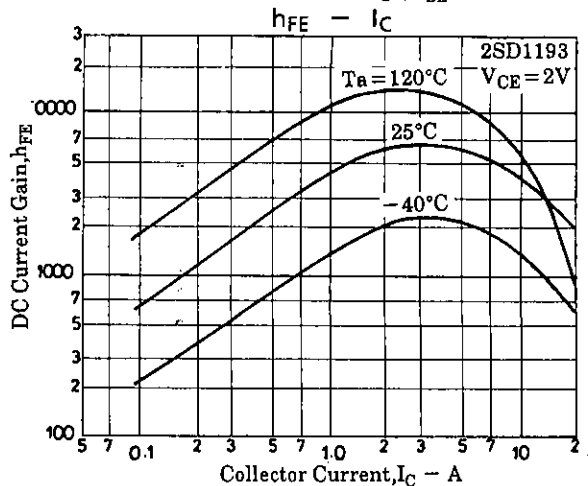
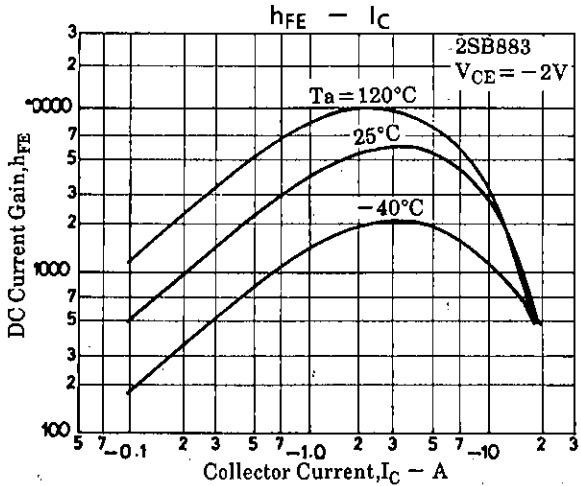
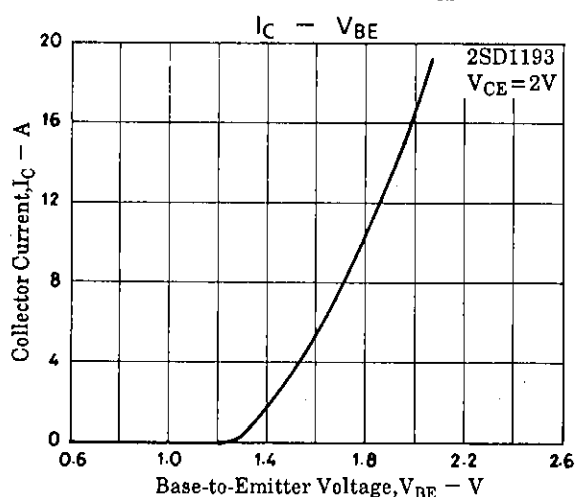
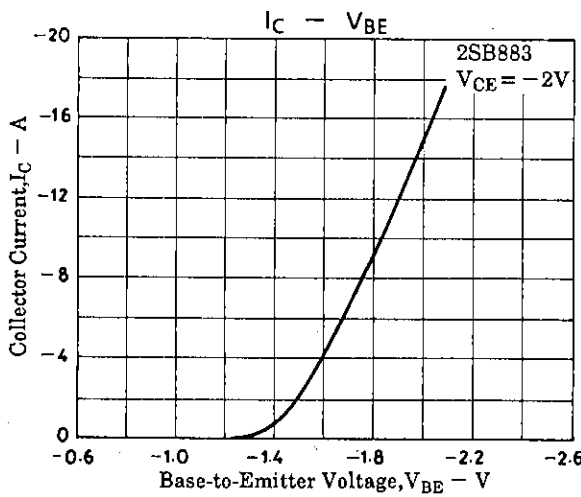
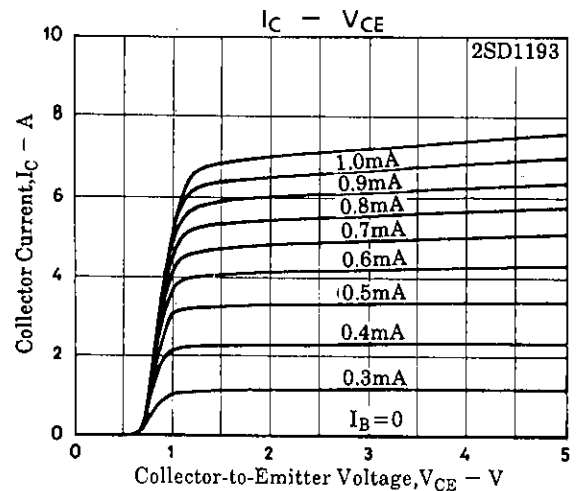
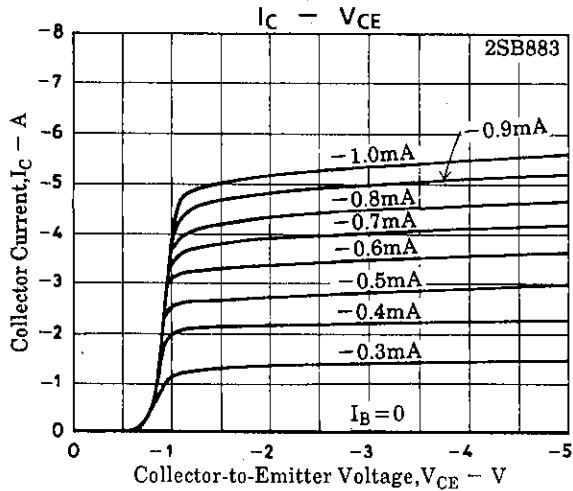
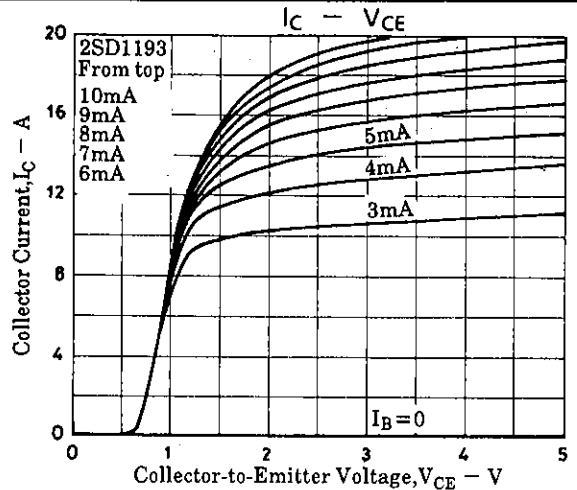
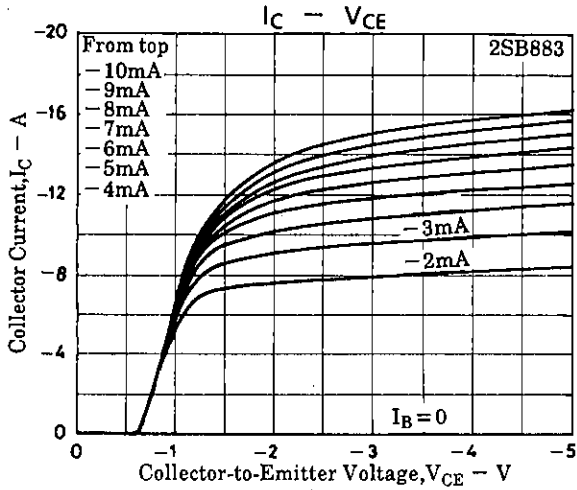


Unit (Resistance : Ω)

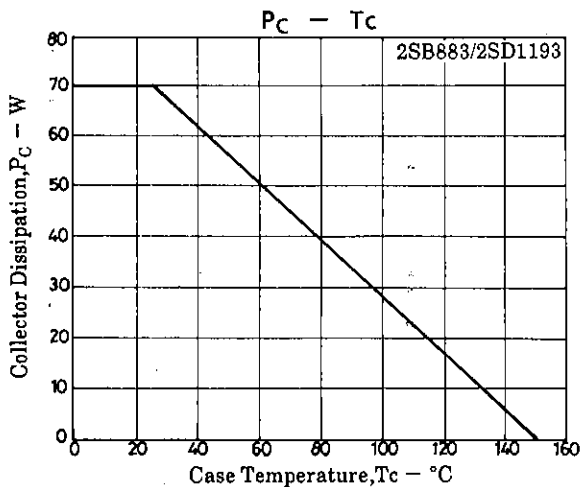
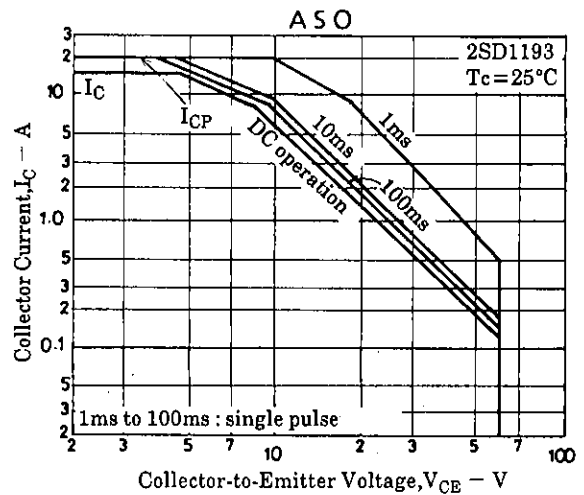
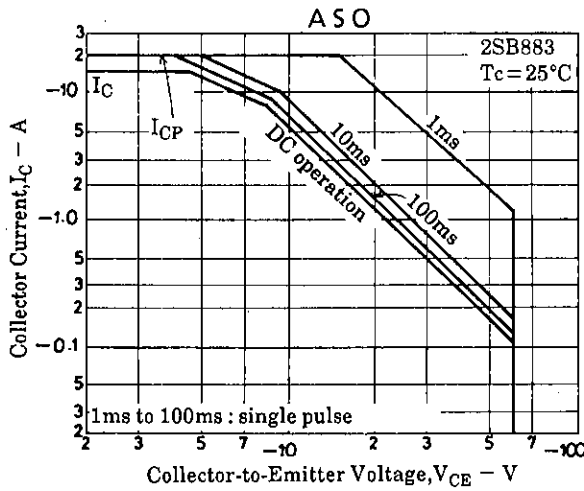
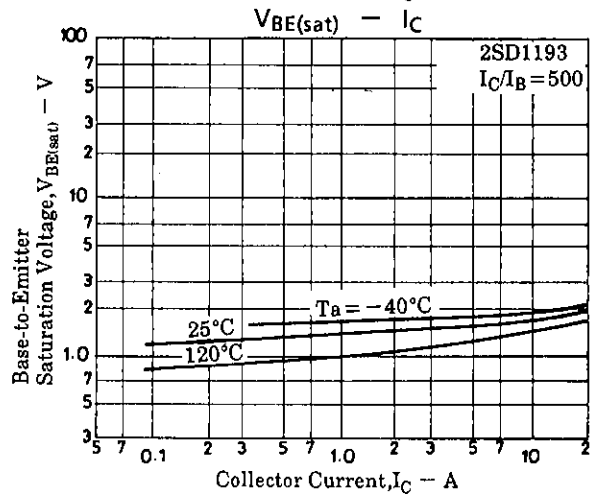
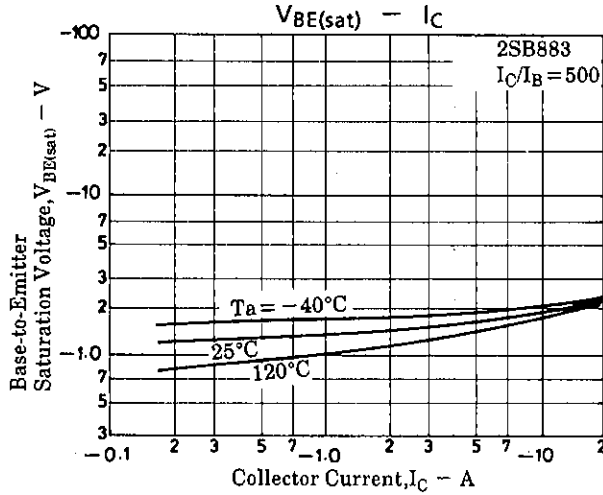
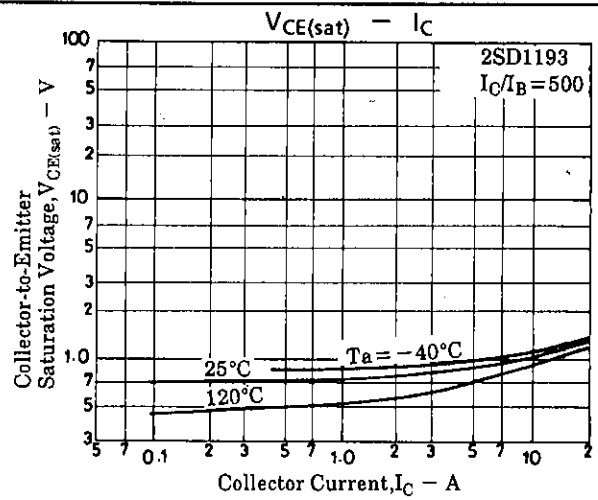
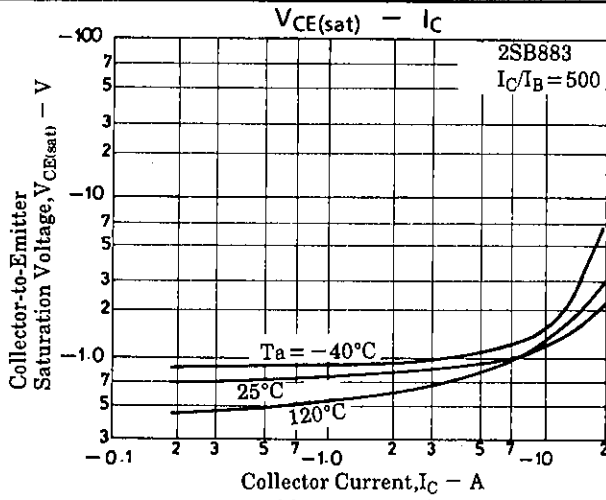
Package Dimensions 2022A
(unit : mm)



SANYO : TO3PB



2SB883/2SD1193



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