

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.

(): 2SB883

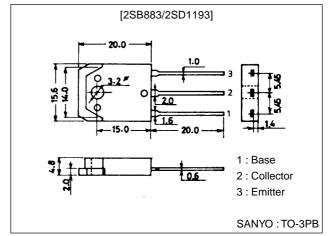
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2022A



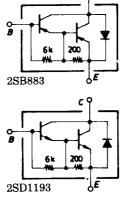
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(-)70	V
Collector-to-Emitter Voltage	V _{CEO}		(–)60	V
Emitter-to-Base Voltage	V _{EBO}		(–)6	V
Collector Current	IC		(–)15	Α
Collector Current (Pulse)	I _{CP}		(–)20	Α
Collector Dissipation	PC	Tc=25°C	70	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

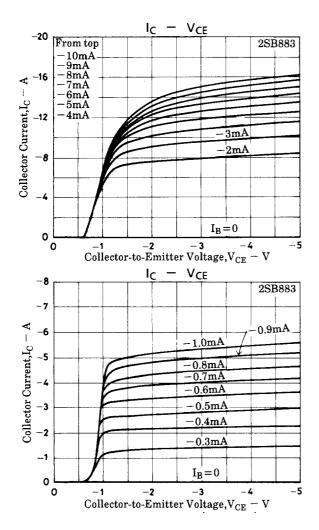
Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)40V, I _E =0			(-)0.1	mA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)5V, I _C =0			(–)3	mA
DC Current Gain	h _{FE}	V _{CE} =(-)2V, I _C =(-)7A	2000	5000		
Gain-Bandwidth Product	fT	V _{CE} =(-)5V, I _C =(-)7A		20		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)7A, I _B =(-)14mA		0.9	(–)1.5	V
				(–)1.0		V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)7A, I _B =(-)14mA			(-)2.0	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)5mA, I _E =0	(-)70			V
Collector-to-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =(-)50mA, R _{BE} =∞	(-)60			V

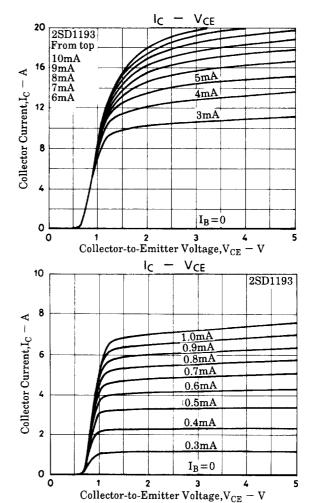
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Electrical Connection

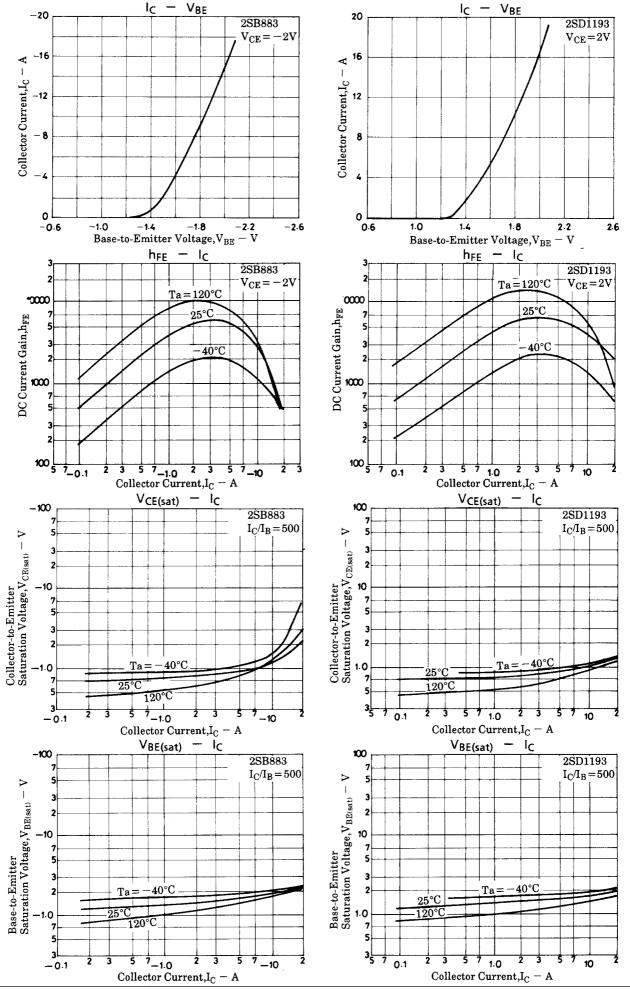


Unit (resistance : Ω)

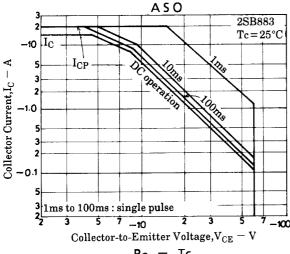


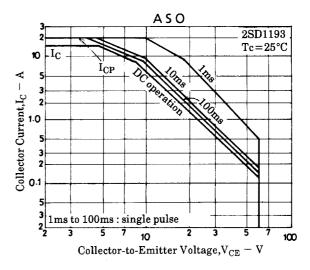


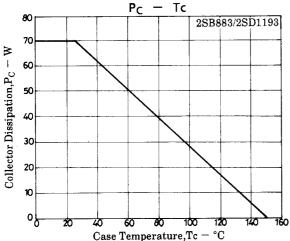
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