

2SB882/2SD1192

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.

():2SB882

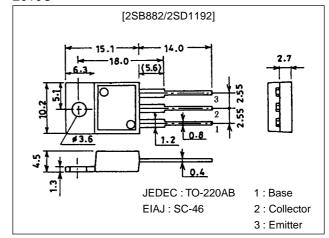
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2010C



Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(–)70	V
Collector-to-Emitter Voltage	VCEO		(-)60	V
Emitter-to-Base Voltage	V _{EBO}		(-)6	V
Collector Current	IC		(–)10	Α
Collector Current (Pulse)	ICP		(–)15	Α
Collector Dissipation	PC		1.75	W
		Tc=25°C	40	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

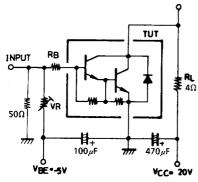
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =(-)40V, I _E =0			(-)0.1	mA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)5V, I _C =0			(-)3.0	mA
DC Current Gain	hFE	V _{CE} =(-)2V, I _C =(-)5A	2000	5000		
Gain-Bandwidth Product	f _T	V _{CE} =(-)5V, I _C =(-)5A		20		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)5A, I _B =(-)10mA		0.9	(–)1.5	V
				(-)1.0		V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)5A, I _B =(-)10mA			(-)2.0	V

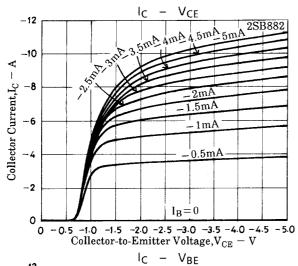
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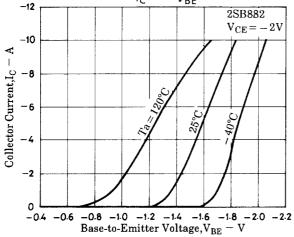
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Uill
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)5mA, I _E =0	(-)70			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	$I_C=(-)50$ mA, $R_{BE}=\infty$	(-)60			V
Turn-ON Time	ton	See specified Test Circuit		(0.5)		μs
				0.6		μs
Storage Time	t _{stg}	See specified Test Circuit		(1.5)		μs
				3.0		μs
Fall Time	t _f	See specified Test Circuit		(1.7)		μs
				1.8		μs

Switching Time Test Circuit

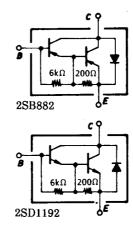


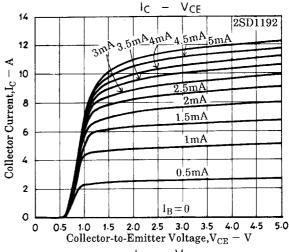
(For PNP, the polarity is reversed.) $PW = 50 \mu s, Duty \ Cycle \le 1\%$ $500 I_B 1 = -500 I_B 2 = I_C = 5A$

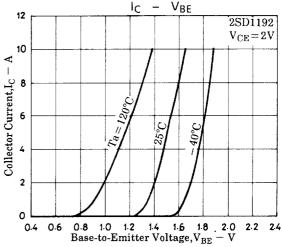




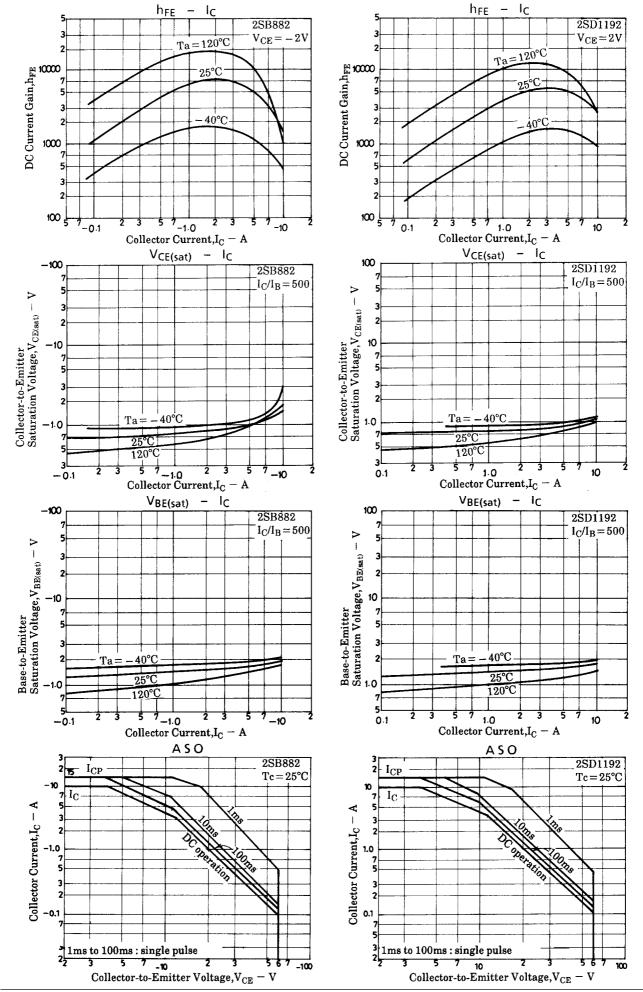
Electrical Connection



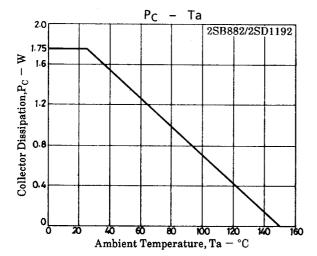


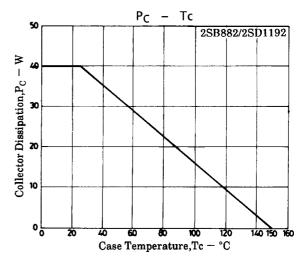


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