



2SB886/2SD1196

Driver Applications

Applications

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

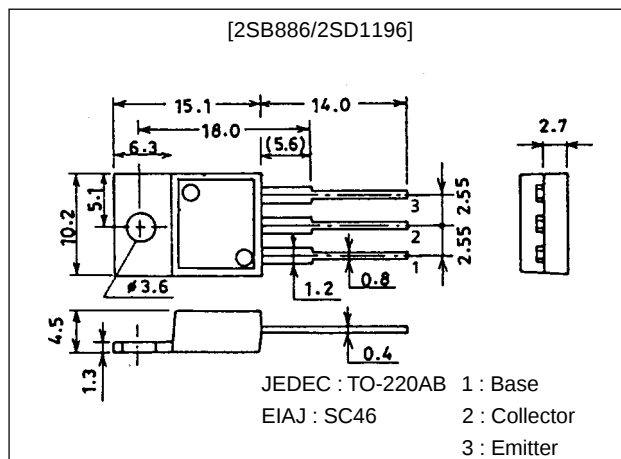
Features

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

Package Dimensions

unit:mm

2010C



() : 2SB886

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		(-) 8	A
Collector Current (Pulse)	I_{CP}		(-) 12	A
Collector Dissipation	P_C		1.75	W
		$T_C=25^{\circ}\text{C}$	40	W
Junction Temperature	T_J		150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}		-55 to $+150$	$^{\circ}\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

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}	$V_{EB}=(-)5V, I_C=0$			$(-)3.0$	mA
DC Current Gain	h_{FE}	$V_{CE}=(-)3V, I_C=(-)4A$	1500	4000		
Gain-Bandwidth Product	f_T	$V_{CE}=(-)5V, I_C=(-)4A$		20		MHz
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)4A, I_B=(-)8mA$		0.9	$(-)1.5$	V
				(-1.0)		V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=(-)4A, I_B=(-)8mA$			$(-)2.0$	V

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SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquarters

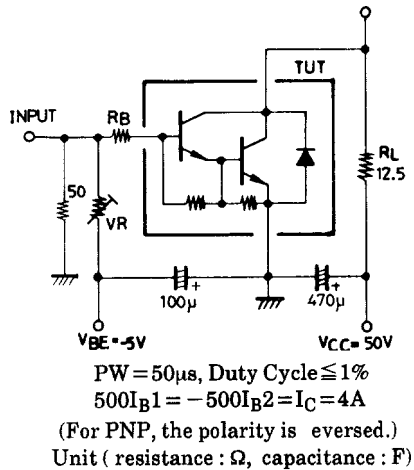
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

91098HA (KT)/10996TS (KOTO) 8-4331/D251MH/4067KI/2045MW, TS No.928-1/4

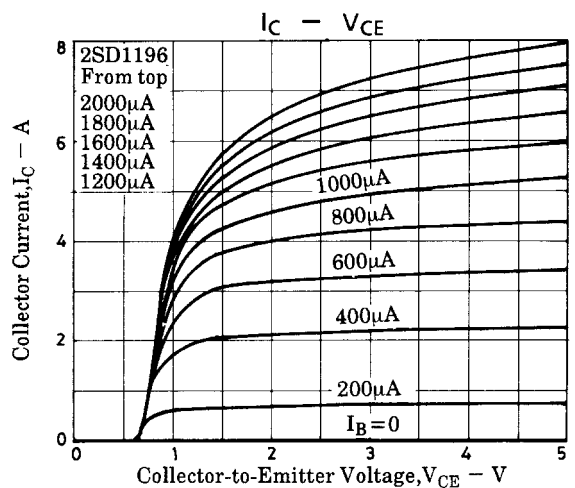
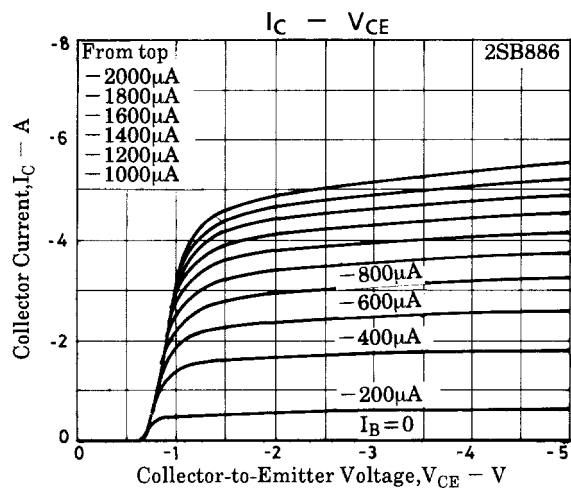
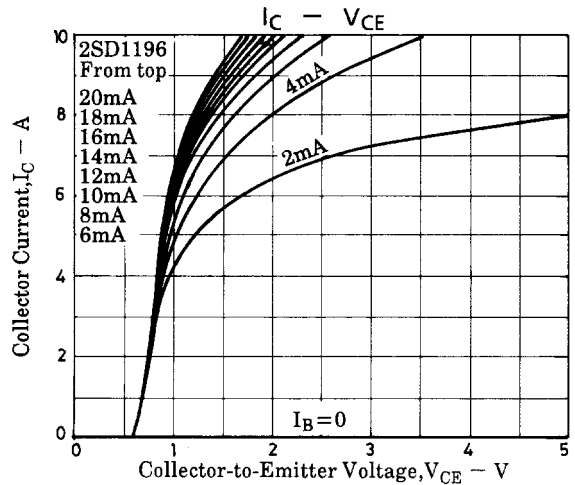
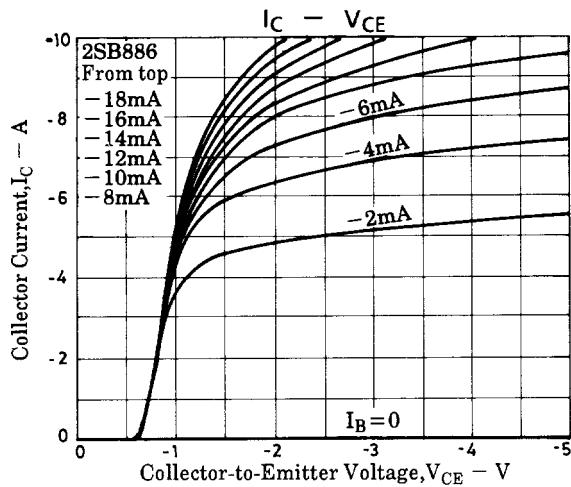
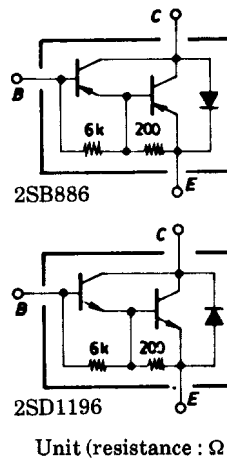
2SB886/2SD1196

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		(0.7)		μs
Storage Time	t_{stg}	See specified Test Circuit		0.6		μs
				(1.4)		μs
Fall Time	t_f	See specified Test Circuit		4.8		μs
				(1.5)		μs
				1.6		μs

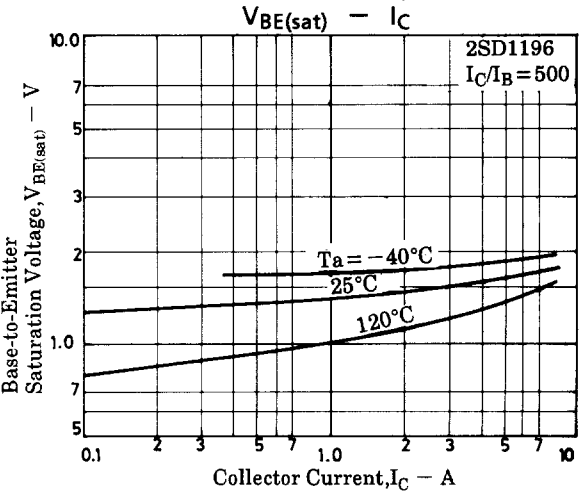
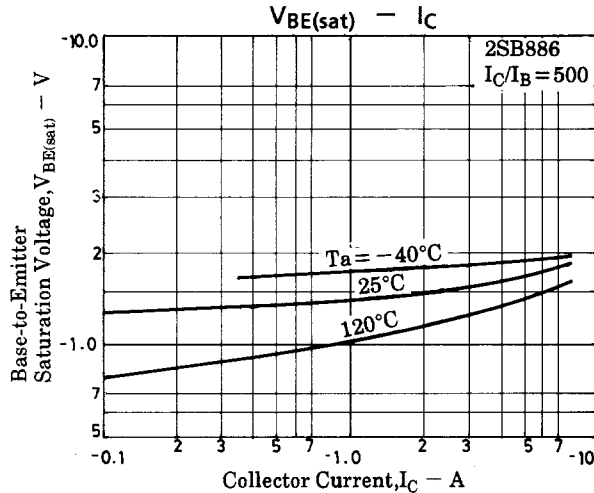
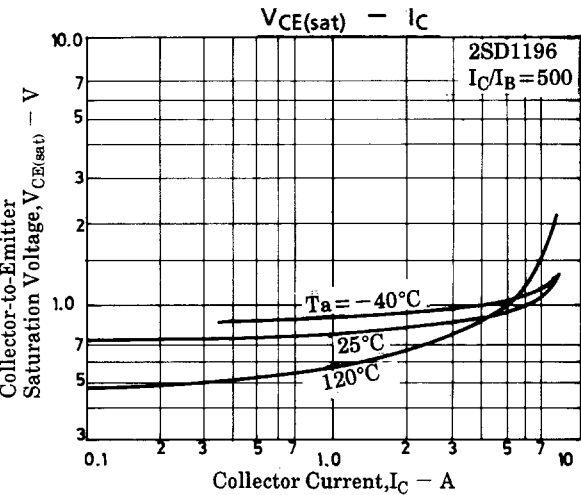
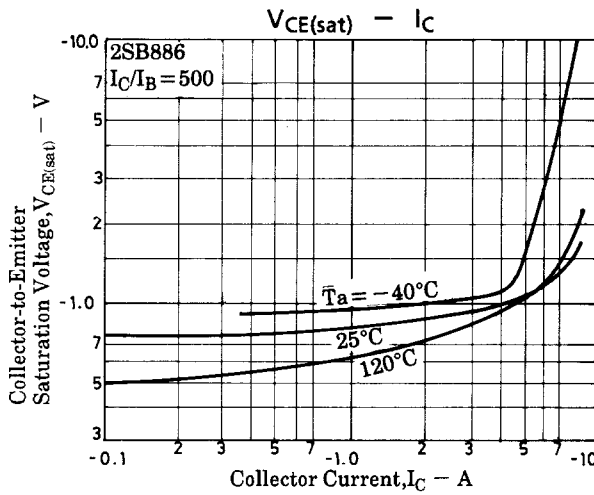
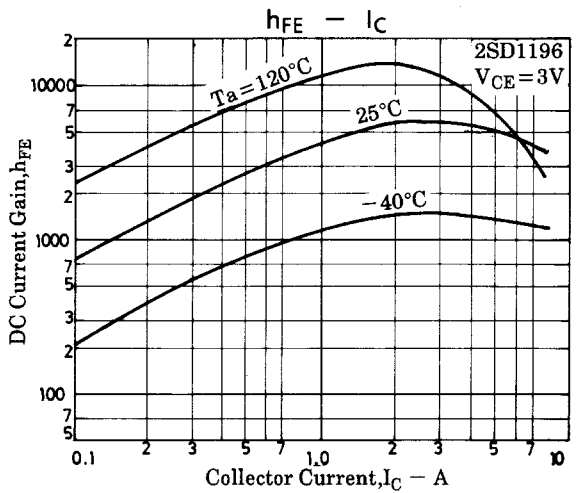
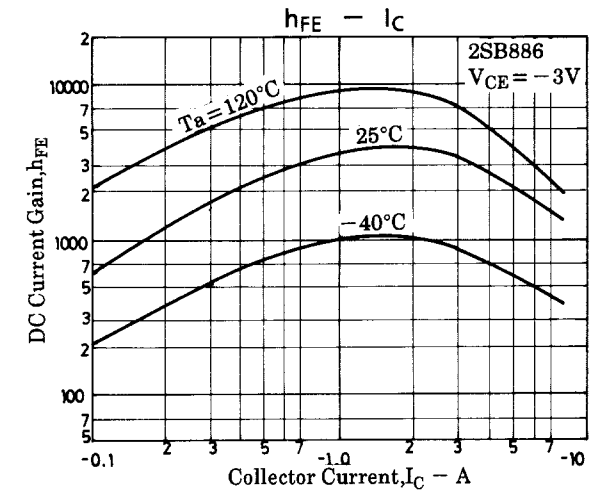
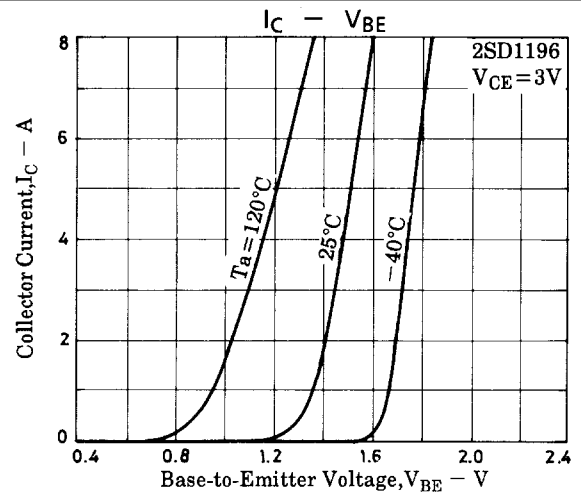
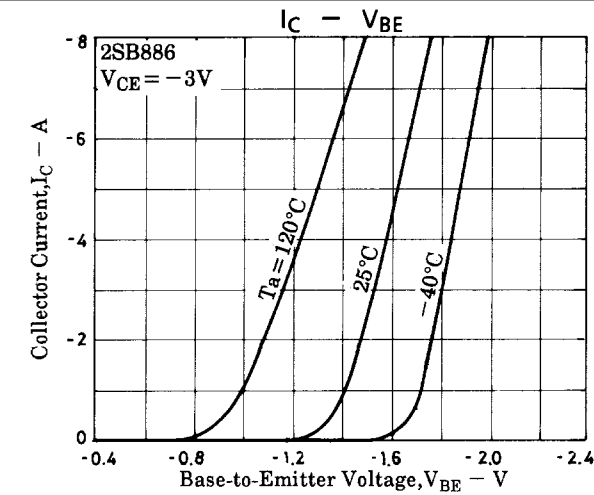
Switching Time Test Circuit

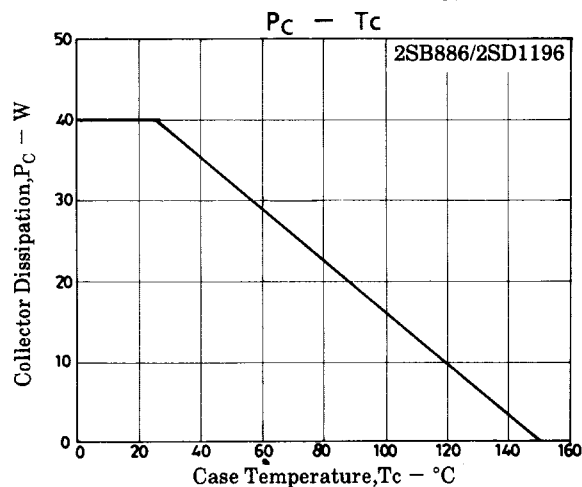
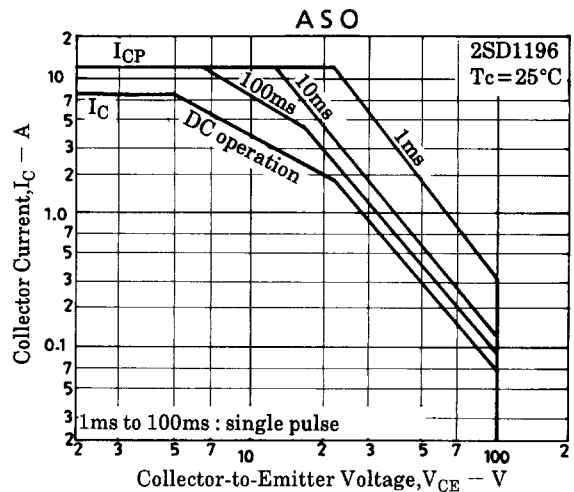
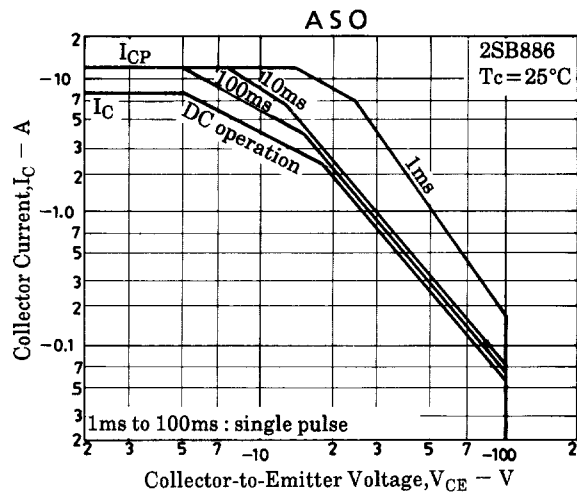


Electrical Connection



2SB886/2SD1196





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