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Ordering number: EN 1079A

SANYO No.1079A

2SB887/2SD1197

PNP/NPN Planar Type
Silicon Darlington Transistors

DRIVER APPLICATIONS

Applications

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

Features

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

( ): 2SB887

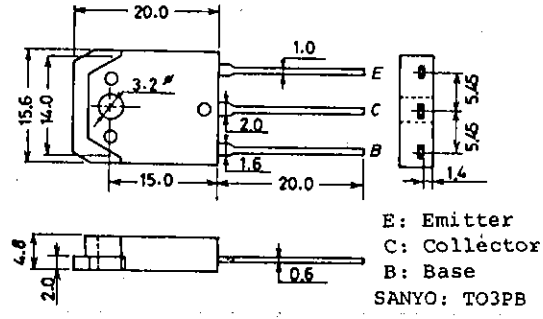
Absolute Maximum Ratings at Ta=25°

				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		(-)10	A
Peak Collector Current	i_{cp}		(-)15	A
Collector Dissipation	P_C	Tc=25°C	70	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

			min	typ	max	unit
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=(-)5A	1500	4000		
Gain-Bandwidth Product	f_T	V_{CE}=(-)5V, I_C=(-)5A		20		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	I_C=(-)5A, I_B=(-)10mA		(-1.0) 0.9	(-)1.5	V
B-E Saturation Voltage	$V_{BE(sat)}$	I_C=(-)5A, I_B=(-)10mA			(-)2.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	I_C=(-)5mA, I_E=0	(-)110			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	I_C=(-)50mA, R_{BE}=∞	(-)100			V

Package Dimensions 2022
(unit: mm)



E: Emitter
C: Collector
B: Base
SANYO: TO3PB

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

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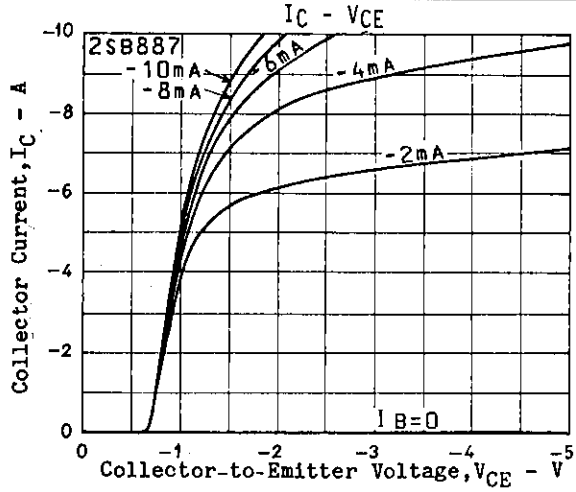
I_C - V_{CE}



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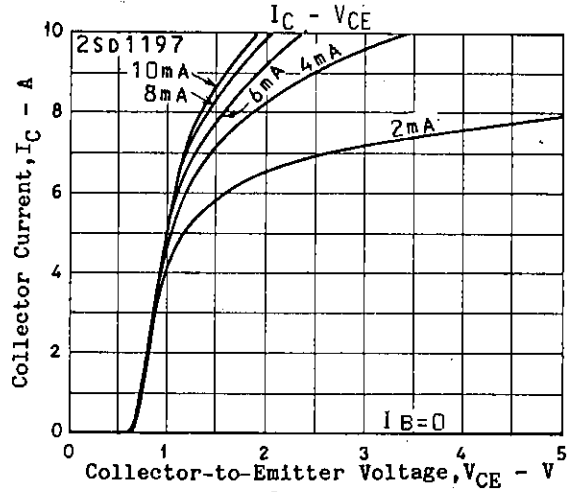

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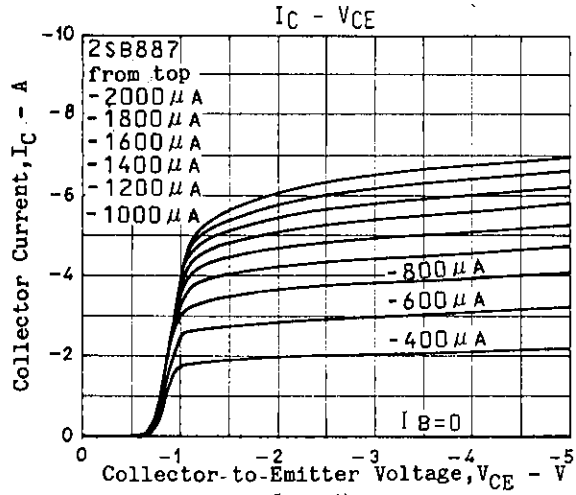

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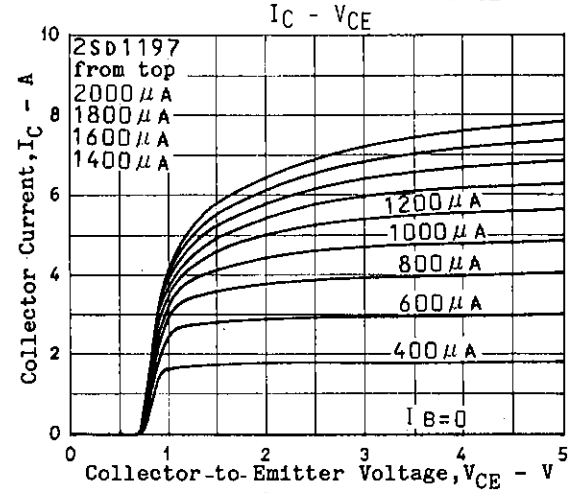

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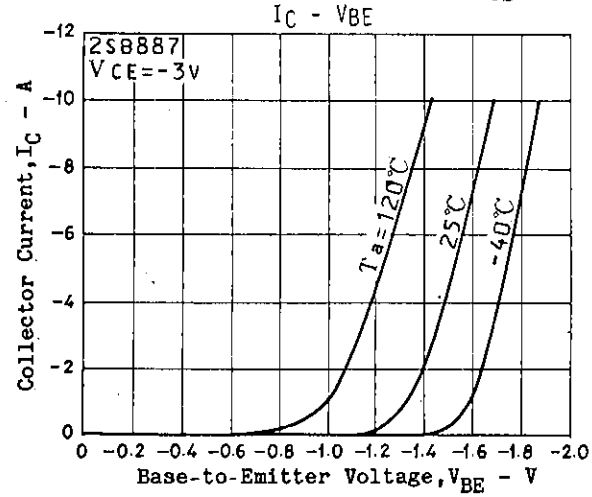
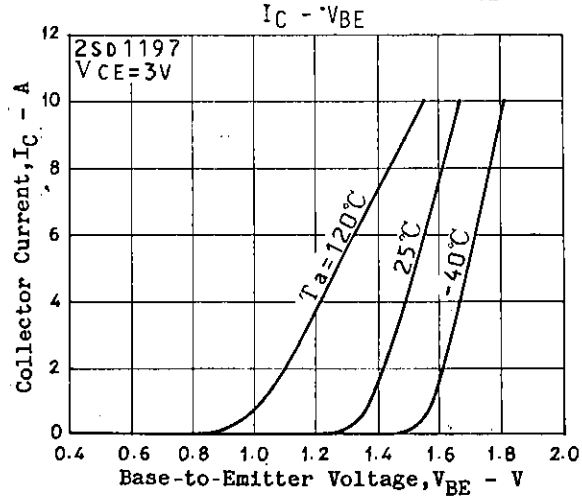
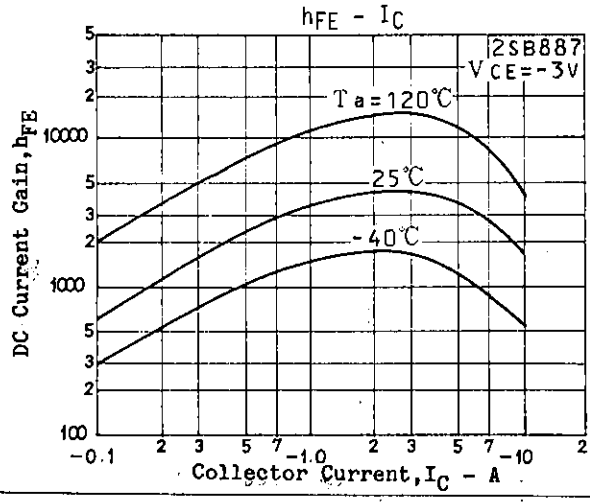


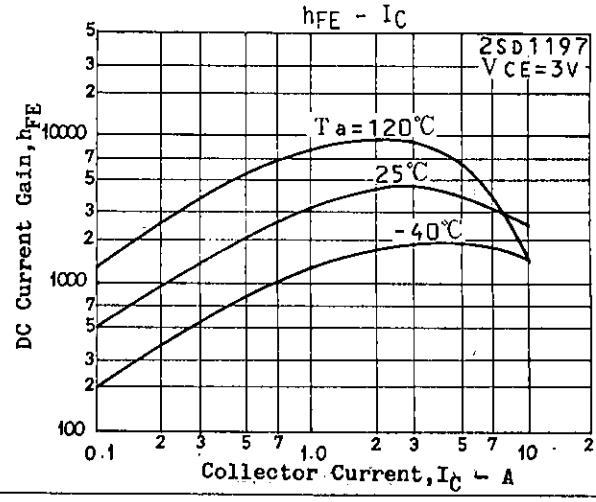
I_C - V_{BE}



h_{FE} - I_C



h_{FE} - I_C



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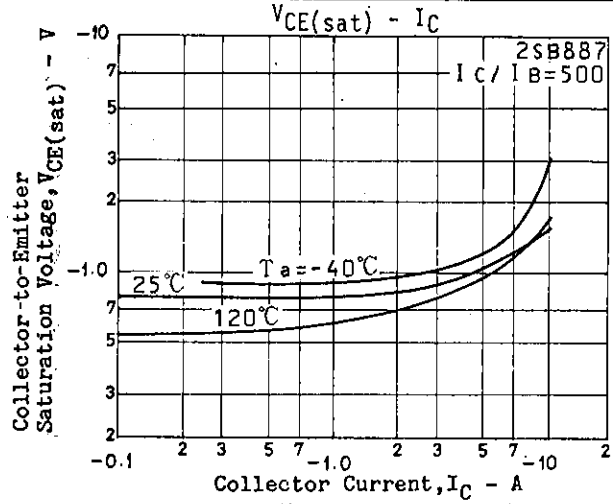
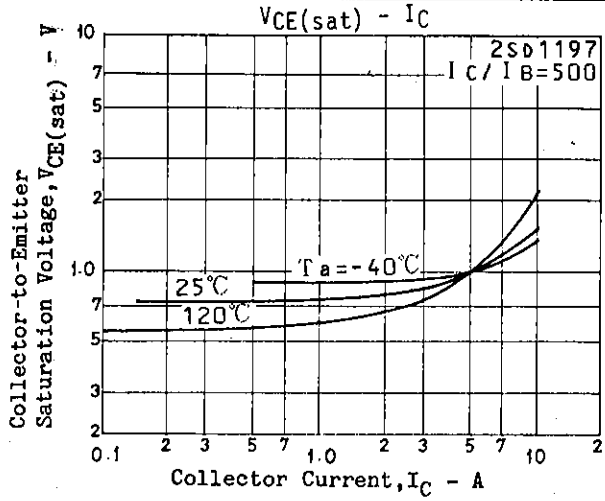
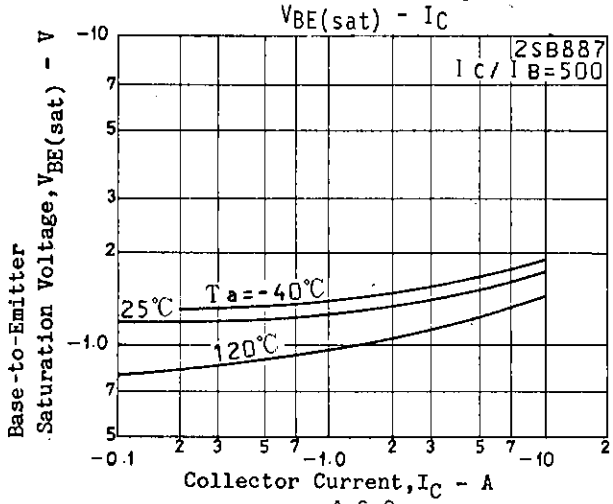
$V_{CE(sat)}$ - I_C



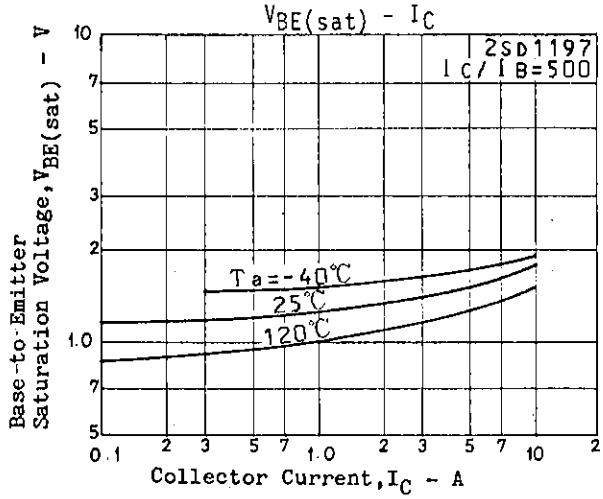
$V_{CE(sat)}$ - I_C



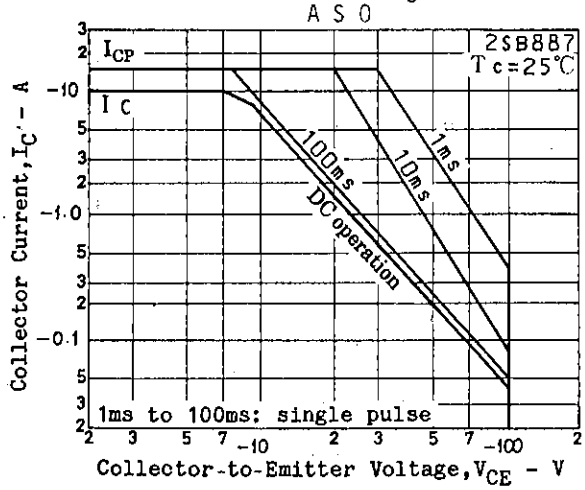
$V_{BE(sat)}$ - I_C



$V_{BE(sat)}$ - I_C



A S O



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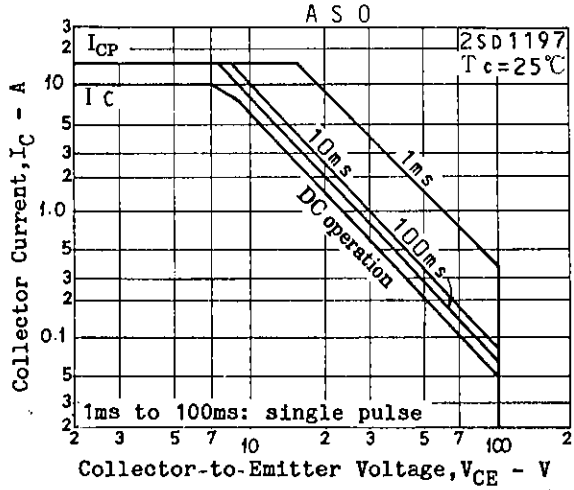
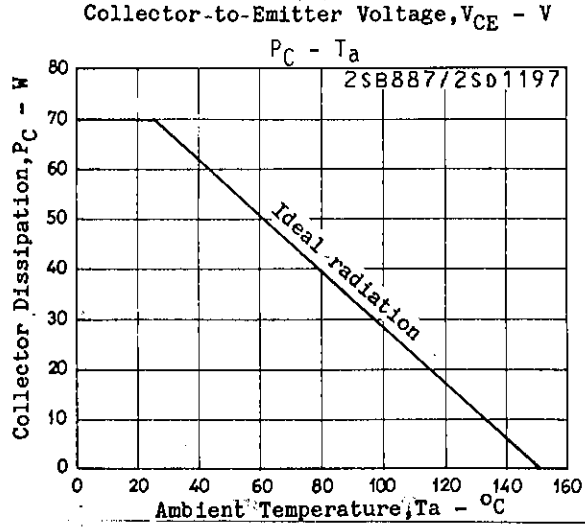


P_C - T_a



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