

# **Driver Applications**

#### **Features**

· 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

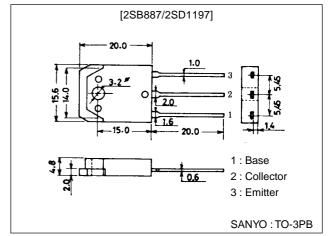
# **Specifications**

### Absolute Maximum Ratings at Ta = 25°C

## **Package Dimensions**

unit:mm

2022A

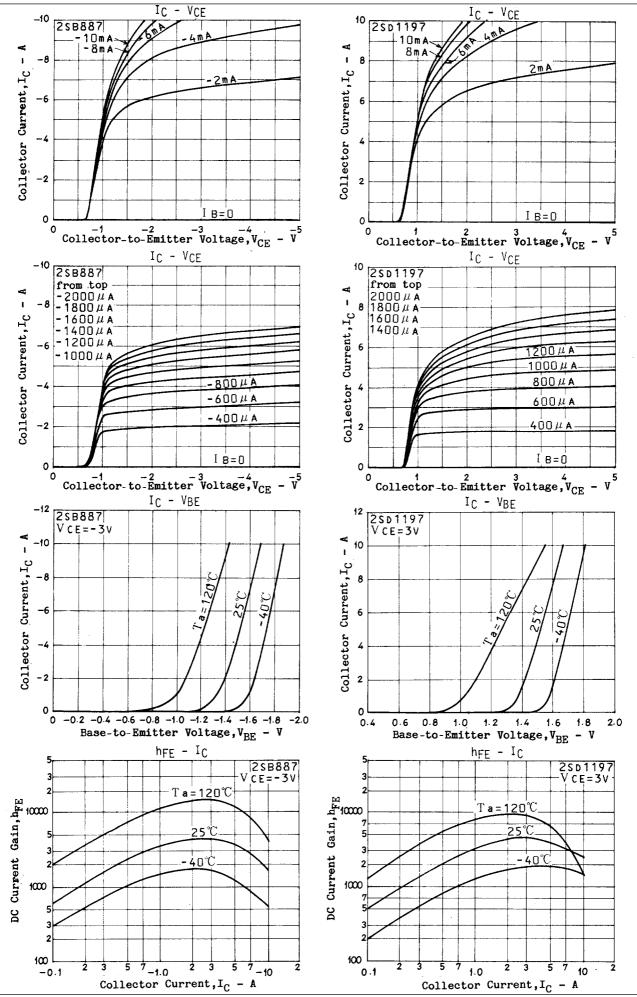


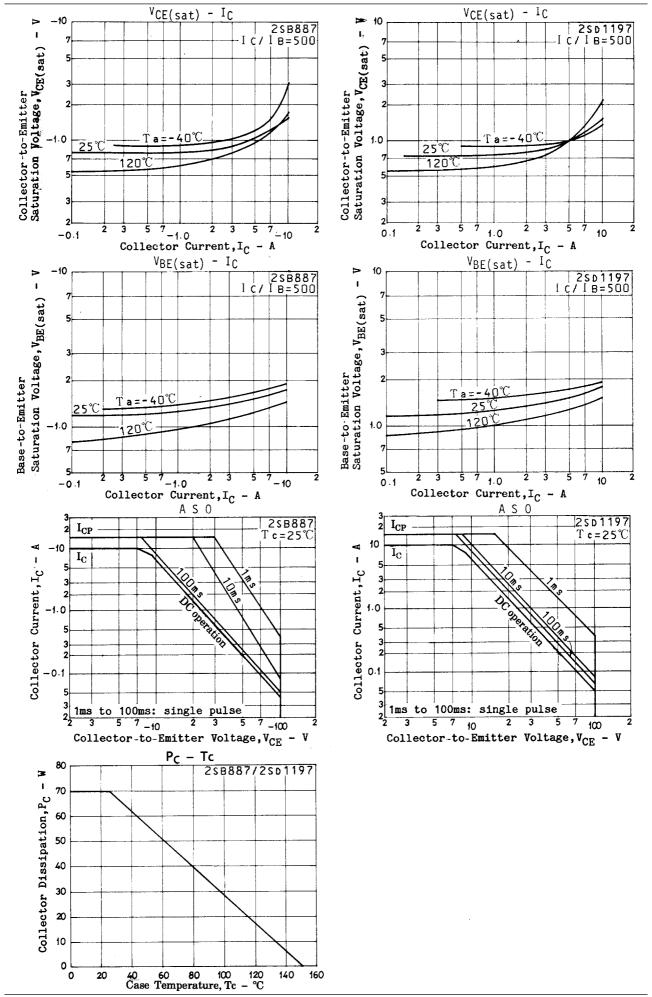
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V <sub>CBO</sub>		(–)110	V
Collector-to-Emitter Voltage	V <sub>CEO</sub>		(–)100	V
Emitter-to-Base Voltage	V <sub>EBO</sub>		(–)6	V
Collector Current	IC		(–)10	Α
Collector Current (Pulse)	I <sub>CP</sub>		(–)15	Α
Collector Dissipation	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			Unit
			min	typ	max	Oille
Collector Cutoff Current	ICBO	V <sub>CB</sub> =(-)80V, I <sub>E</sub> =0			(-)0.1	mA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =(-)5V, I <sub>C</sub> =0			(-)3.0	mA
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =(-)3V, I <sub>C</sub> =(-)5A	1500	4000		
Gain-Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> =(-)5V, I <sub>C</sub> =(-)5A		20		MHz
Collector-to-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =(-)5A, I <sub>B</sub> =(-)10mA		(-1.0)	(–)1.5	V
				0.9		V
Base-to-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =(-)5A, I <sub>B</sub> =(-)10mA			(-)2.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I <sub>C</sub> =(-)5mA, I <sub>E</sub> =0	(–)110			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I <sub>C</sub> =(-)50mA, R <sub>BE</sub> =∞	(–)100			V

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