

SANYO

No.915C

2SB888

PNP Epitaxial Planar Silicon Darlington Transistor

Driver Applications

Applications

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

Features

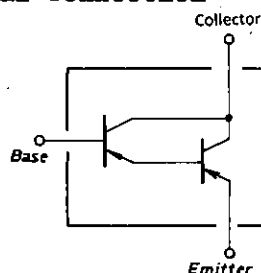
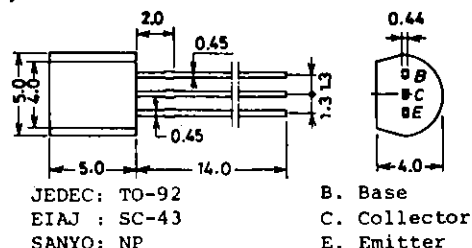
- High DC current gain (5000 or greater).
- Large current capacity and wide ASO.
- Low saturation voltage ($V_{CE(sat)} = -0.8V$ typ).

Absolute Maximum Ratings at $T_a = 25^\circ C$

			unit
Collector to Base Voltage	V_{CBO}	-80	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-10	V
Collector Current	I_C	-0.7	A
Collector Current(Pulse)	I_{CP}	-2	A
Allowable Collector Dissipation	P_C	600	mW
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to +150	$^\circ C$

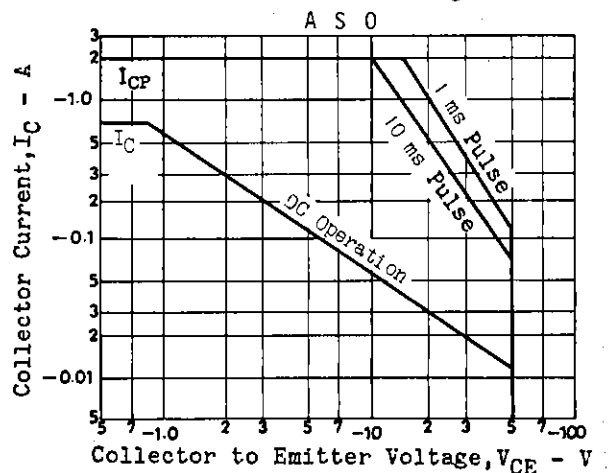
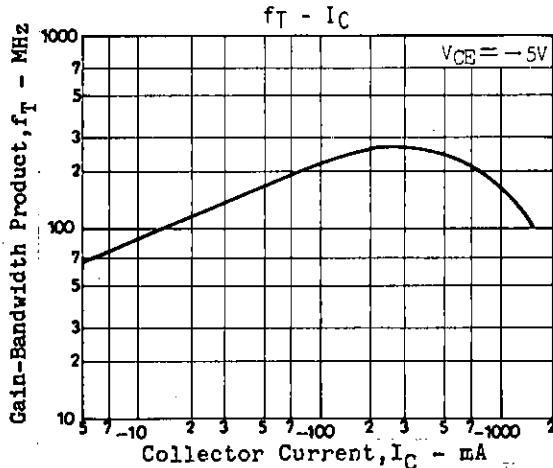
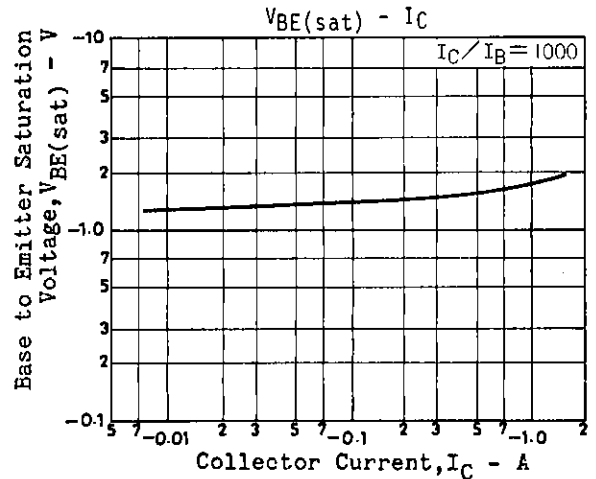
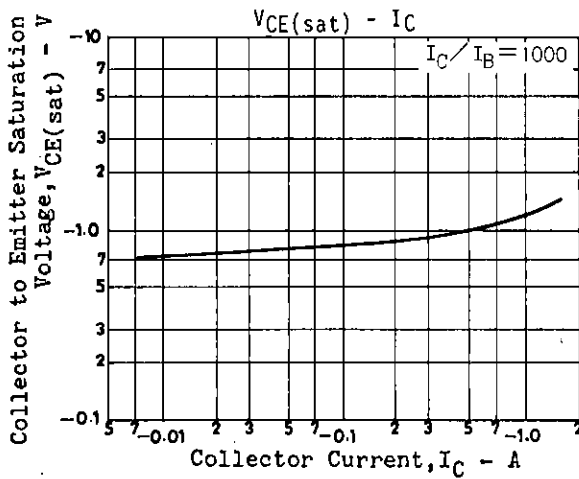
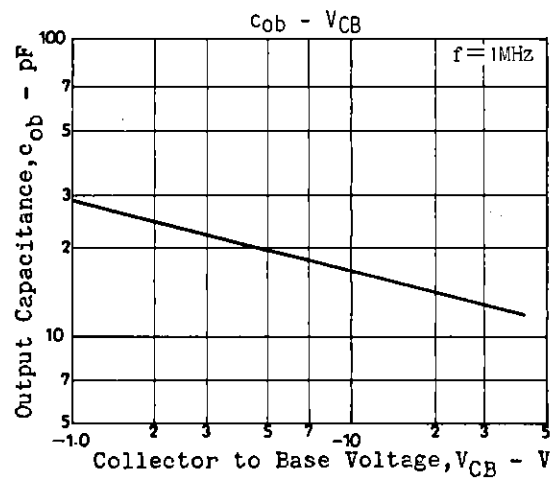
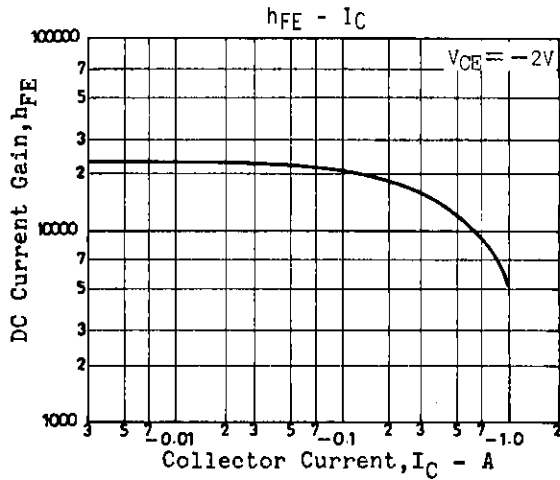
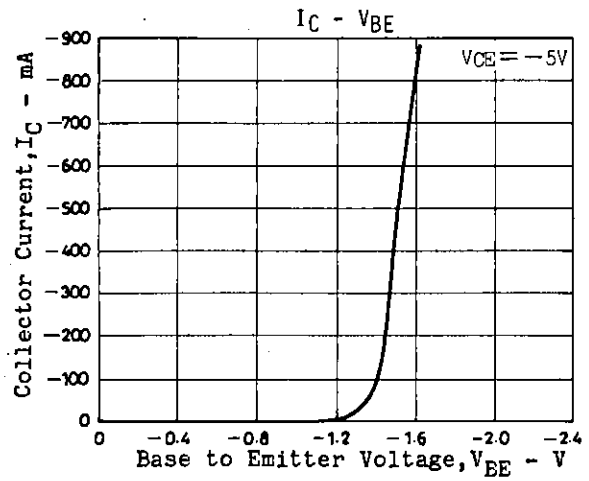
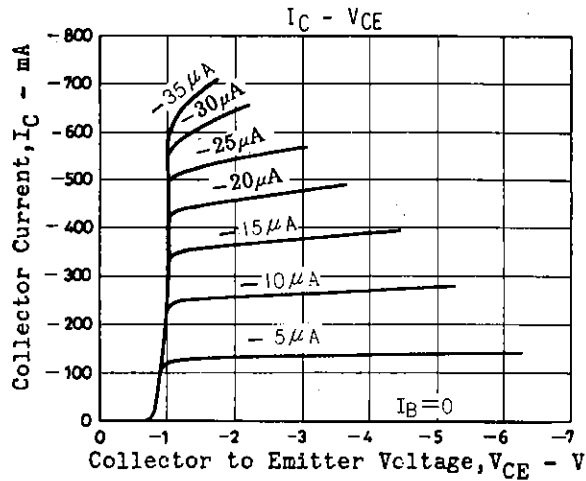
Electrical Characteristics at $T_a = 25^\circ C$

		min	typ	max	unit
Collector Cutoff Current	I_{CBO} $V_{CB} = -40V, I_E = 0$			-0.1	μA
Emitter Cutoff Current	I_{EBO} $V_{EB} = -8V, I_C = 0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$ $V_{CE} = -2V, I_C = -50mA$	5000			
	$h_{FE(2)}$ $V_{CE} = -2V, I_C = -500mA$	3000			
Gain-Bandwidth Product	f_T $V_{CE} = -5V, I_C = -50mA$		170		MHz
Output Capacitance	c_{ob} $V_{CB} = -10V, f = 1MHz$		16		pF
C-E Saturation Voltage	$V_{CE(sat)}$ $I_C = -100mA, I_B = -0.1mA$	-0.8	-1.2		V
B-E Saturation Voltage	$V_{BE(sat)}$ $I_C = -100mA, I_B = -0.1mA$	-1.3	-2.0		V
C-B Breakdown Voltage	$V_{(BR)CBO}$ $I_C = -10\mu A, I_E = 0$	-80			V
C-E Breakdown Voltage	$V_{(BR)CEO}$ $I_C = -1mA, R_{BE} = \infty$	-50			V
E-B Breakdown Voltage	$V_{(BR)EBO}$ $I_E = -10\mu A, I_C = 0$	-10			V

Electrical Connection**Package Dimensions 2003A**
(unit: mm)

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