

SANYO	No.4667	2SB1527
		PNP Epitaxial Planar Silicon Transistor

Compact Motor Driver Applications

Features

- Low saturation voltage.
- Contains a diode between collector and emitter.
- Contains a bias resistor between base and emitter.
- Large current capacity.
- Compact package making it easy to realize high-density, small-sized hybrid ICs.

Absolute Maximum Ratings at Ta = 25°C

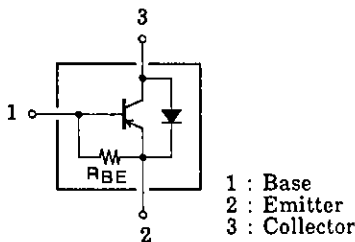
			unit
Collector-to-Base Voltage	V _{CB0}	-20	V
Collector-to-Emitter Voltage	V _{CEO}	-15	V
Emitter-to-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-0.8	A
Collector Current(Pulse)	I _{CP}	-2	A
Collector Dissipation	P _C	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

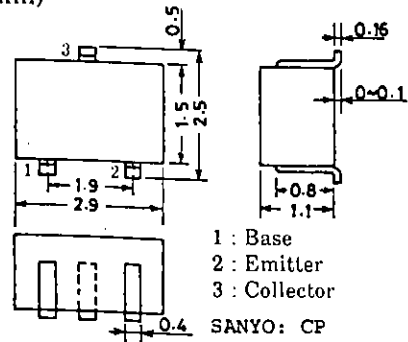
		min	typ	max	unit
Collector Cutoff Current	I _{CBO}	V _{CB} = -15V, I _E = 0		-1.0	μA
DC Current Gain	h _{FE}	V _{CE} = -2V, I _C = -0.5A		70	
Gain-Bandwidth Product	f _T	V _{CE} = -2V, I _C = -0.5A		250	MHz
Output Capacitance	C _{ob}	V _{CB} = -10V, f = 1MHz		30	pF
C-E Saturation Voltage	V _{CE(sat)}	I _C = -500mA, I _B = -10mA		-0.2	V
B-E Saturation Voltage	V _{BE(sat)}	I _C = -500mA, I _B = -10mA		-0.95	V
C-B Breakdown Voltage	V _{(BR)CBO}	I _C = -10μA, I _E = 0		-20	V
C-E Breakdown Voltage	V _{(BR)CEO}	I _C = -10mA, R _{BE} = ∞		-15	V
Diode Forward Voltage	V _F	I _F = -0.5A		-1.5	V
Base-to-Emitter Resistance	R _{BE}			1.0	kΩ

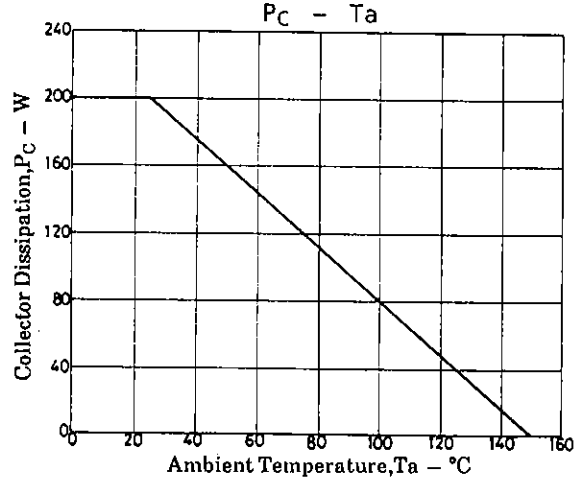
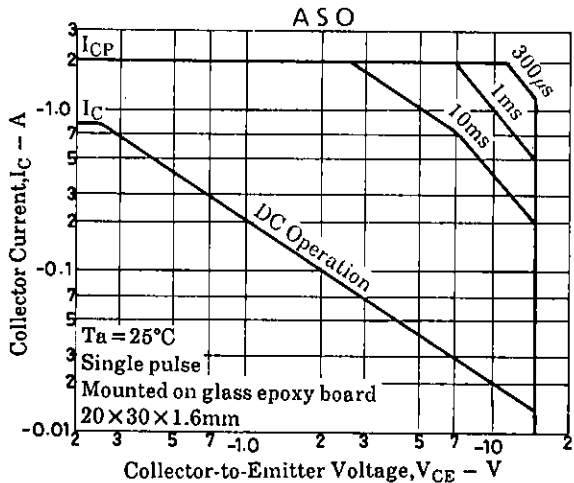
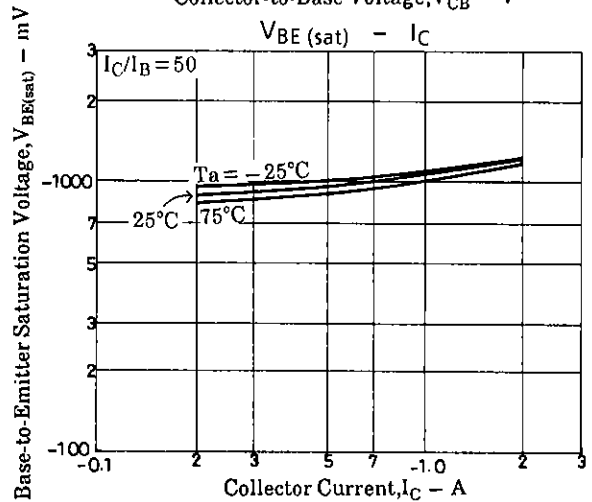
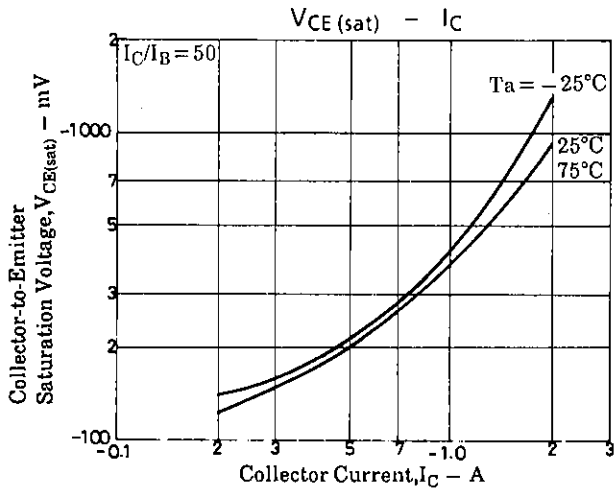
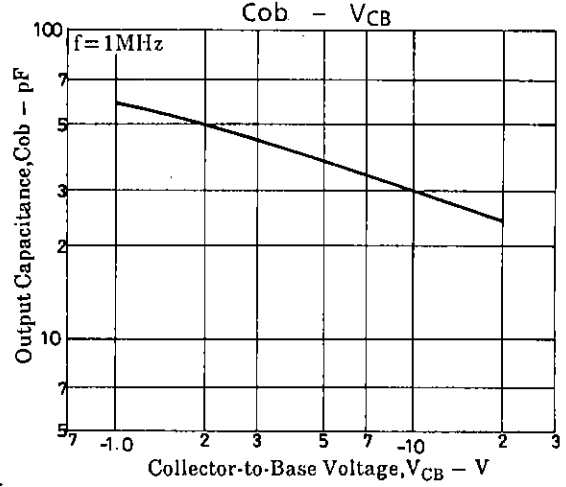
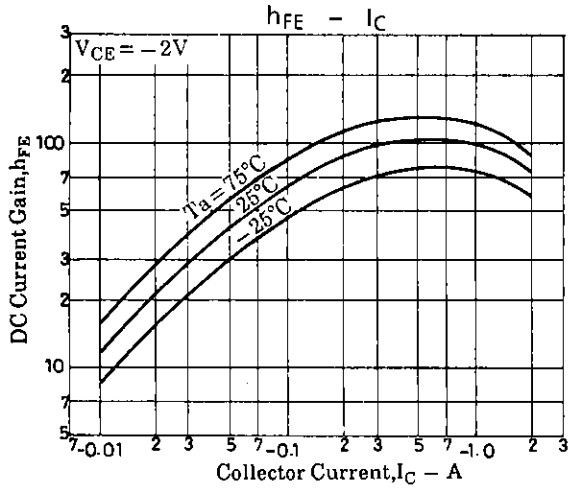
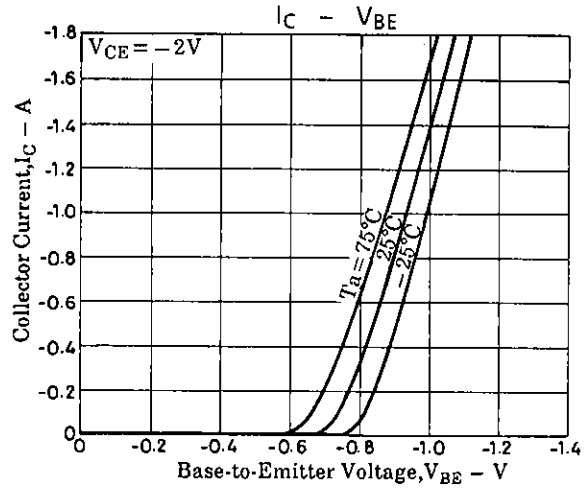
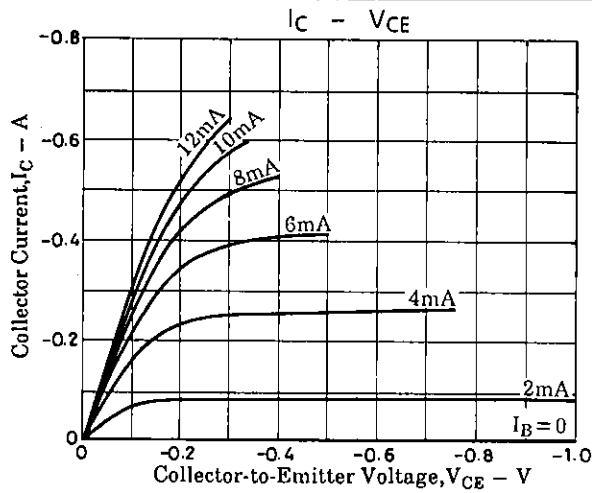
Marking : NS

Electrical Connection



Package Dimensions 2018B
(unit : mm)





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