


PNP Epitaxial Planar Silicon Transistors

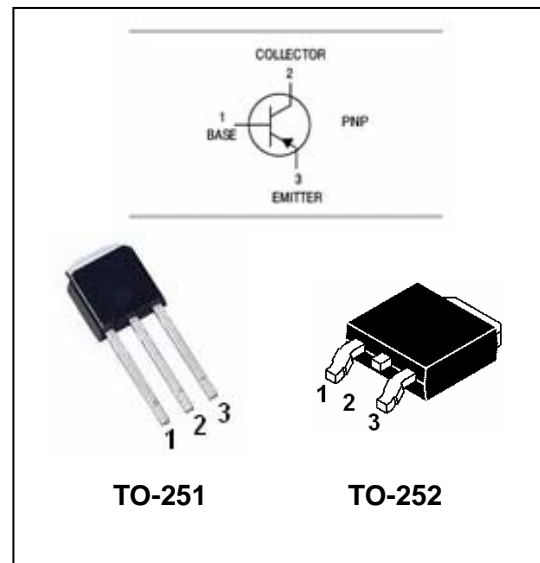
2SB1202

FEATURES

- Adoption of FBET,MBIT processes.
- Large current capacity and wide ASO.  Lead-free
- Low collector-to-emitter saturation voltage.
- Fast switching speed.
- Small and slim package making it easy to
Make 2SB1202-used sets smaller.

APPLICATIONS

- High-Current Switching Applications.
- Voltage regulators,relay drivers,lamp drivers,
Electrical equipment.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Volage	-60	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current	-3	A
I_{CP}	Collector Power Dissipation	-6	A
P_C	Collector Power Dissipation	1	W
T_j, T_{stg}	Junction and Storage temperature range	-55 to +150	°C



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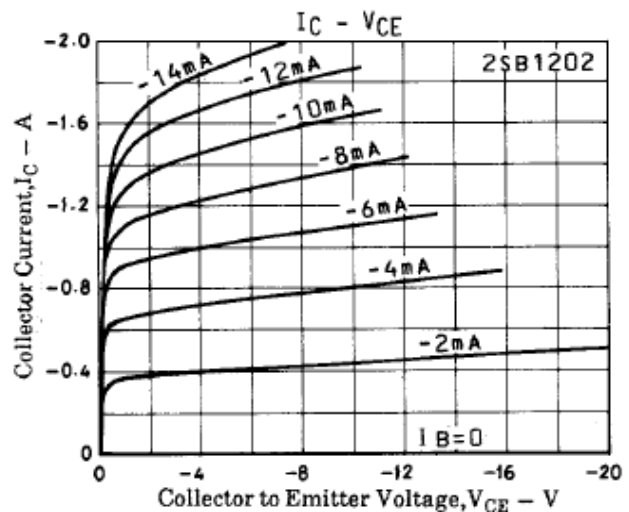
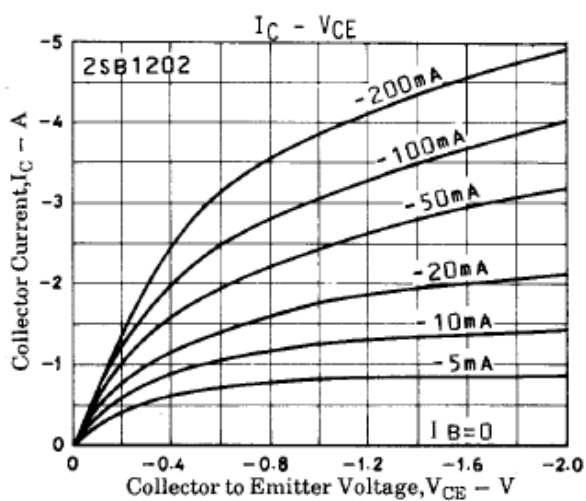
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{CB0}	I _C =-10uA, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{CEO}	I _C =-1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{EBO}	I _E =-10uA, I _C =0	-6			V
Collector cut-off current	I _{CB0}	V _{CB} =-40V, I _E =0			-1	uA
Emitter cut-off current	I _{EBO}	V _{EBO} =-4V, I _C =0			-1	uA
DC current gain	h _{FE}	V _{CE} =-2V, I _C =-100mA V _{CE} =-2V, I _C =-3A	100 35		560	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-2A, I _B =-0.1A		-0.35	-0.7	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-2A, I _B =-0.1A		-0.94	-1.2	V
Transition frequency	f _T	V _{CE} =-10V, I _E =-50mA		150		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, f=1MHz		39		pF

CLASSIFICATION OF h_{FE(1)}

Rank	R	S	T	U
Range	100-200	140-280	200-400	280-560

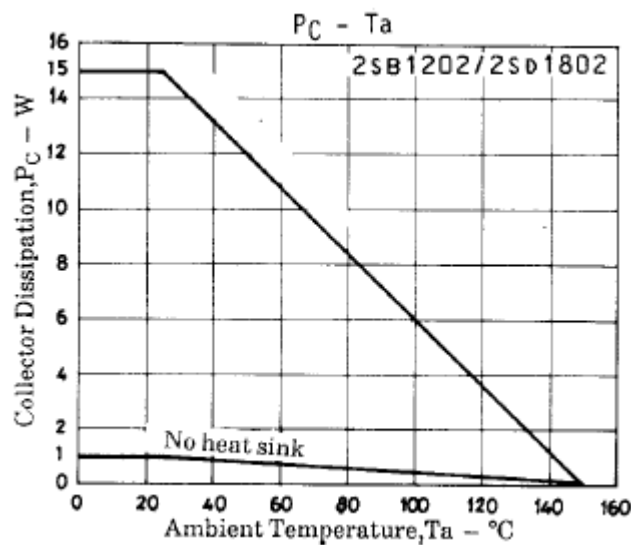
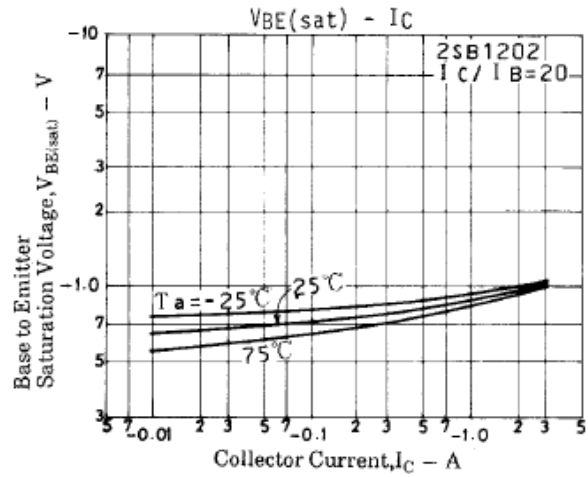
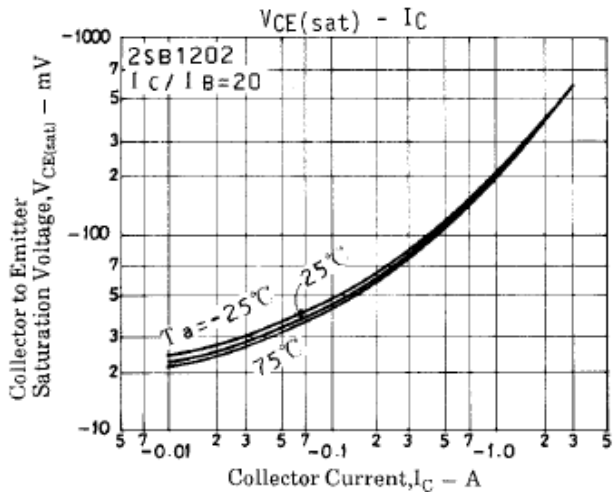
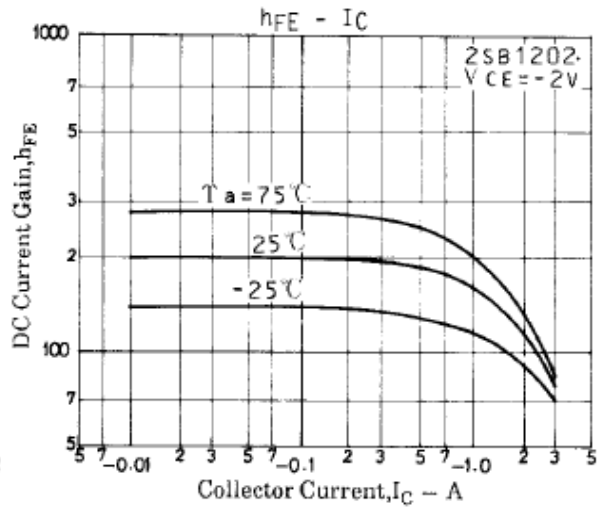
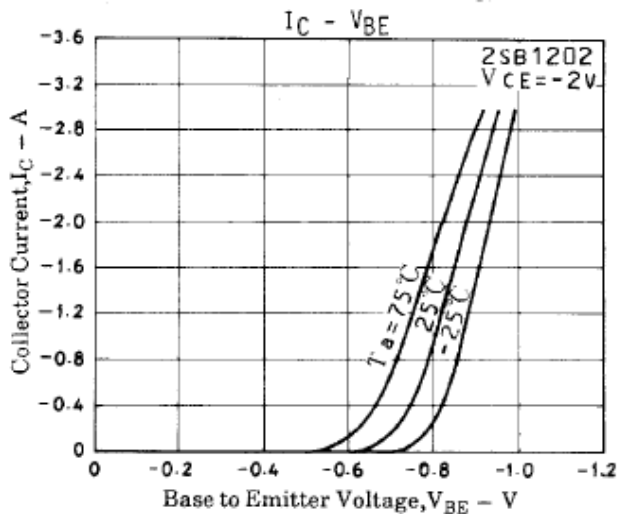
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





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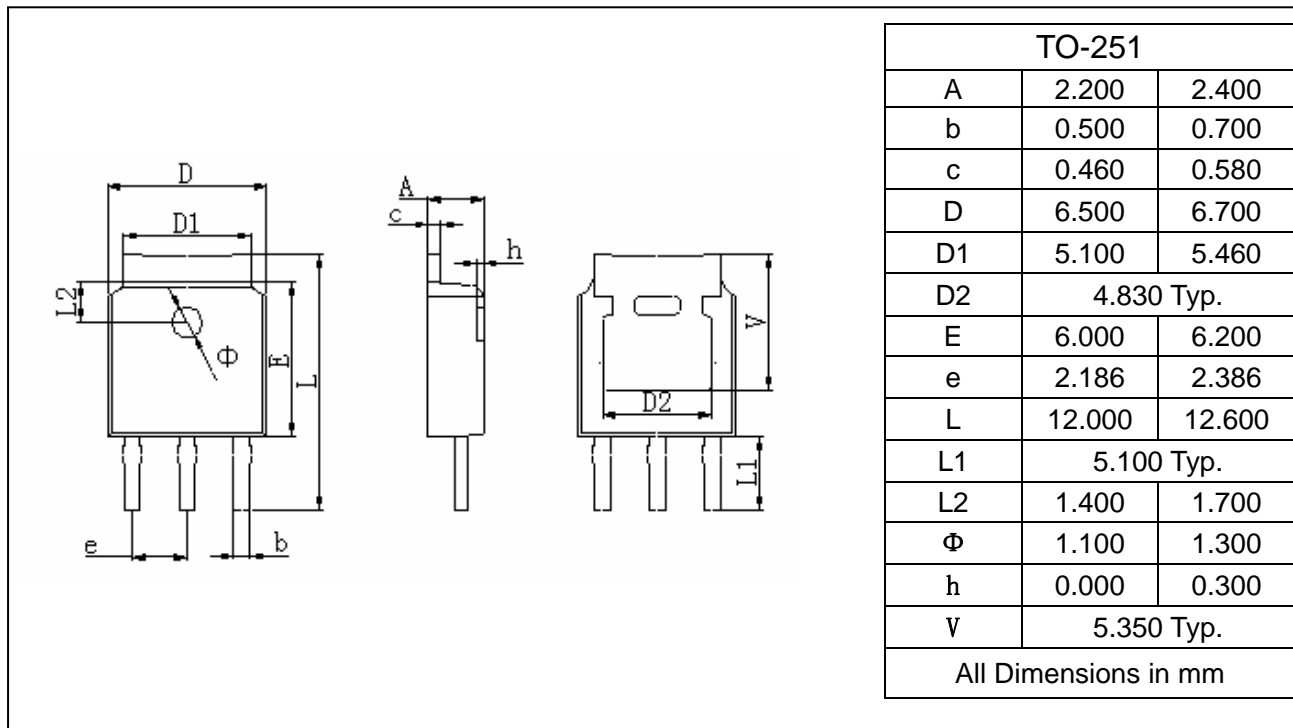
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PACKAGE OUTLINE

Plastic surface mounted package

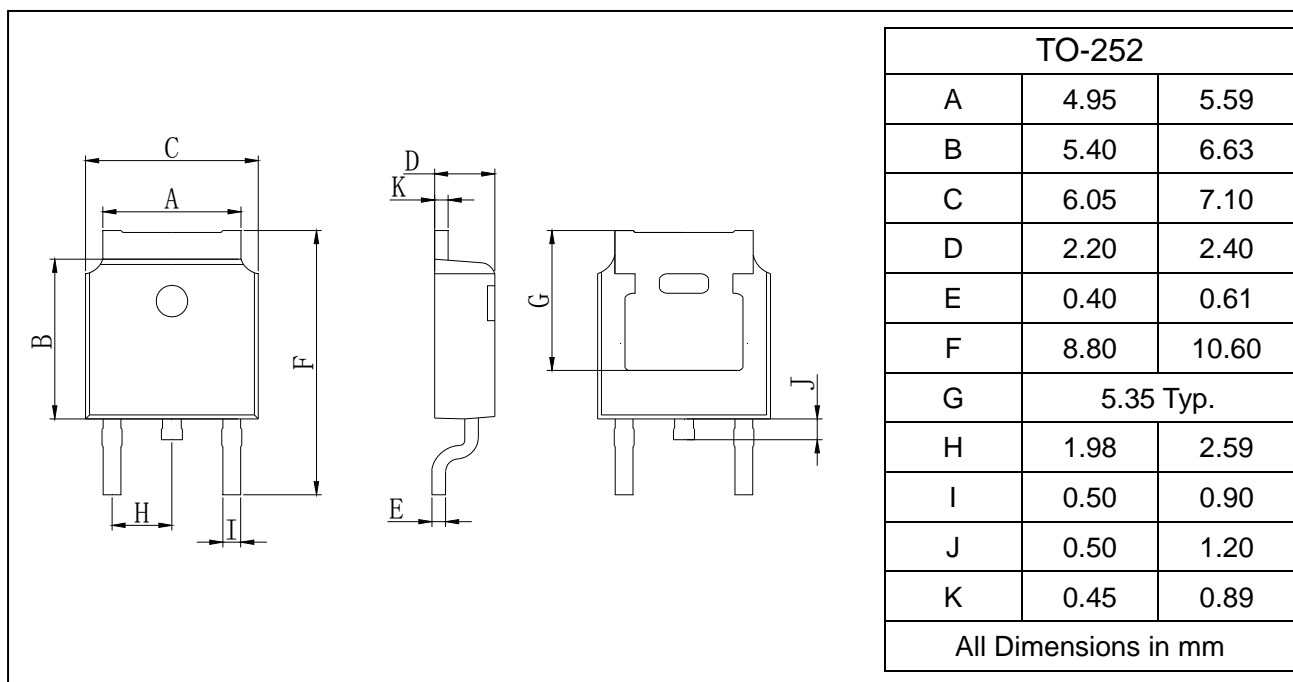
TO-251



PACKAGE OUTLINE

Plastic surface mounted package

TO-252

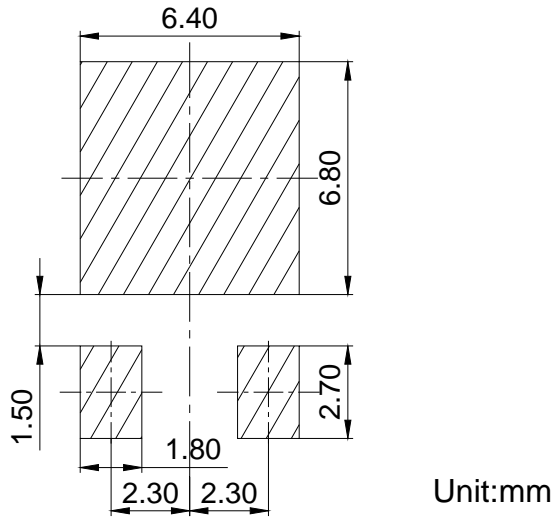




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SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
2SB1202	TO-251/252	80PCS/Tube
	TO-252	2500PCS/Tape&Reel