

SANYO	No.1029C	2SB927/2SD1247
		PNP/NPN Epitaxial Planar Silicon Transistors
Large-Current Driving Applications		

Applications

- . Power supplies, relay drivers, lamp drivers, electrical equipment

Features

- . Adoption of FBET, MBIT processes
- . Low saturation voltage
- . Large current capacity and wide ASO

() : 2SB927

Absolute Maximum Ratings at Ta=25°C

			unit
Collector to Base Voltage	V _{CB0}	(-) 30	V
Collector to Emitter Voltage	V _{CE0}	(-) 25	V
Emitter to Base Voltage	V _{EB0}	(-) 6	V
Collector Current	I _C	(-) 2.5	A
Collector Current(Pulse)	I _{CP}	(-) 5	A
Collector Dissipation	P _C	1.0	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

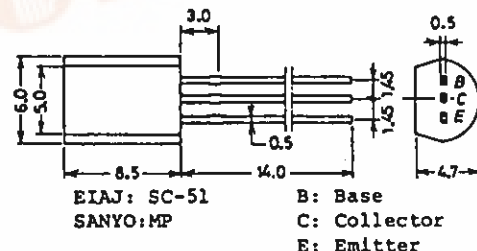
Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Collector Cutoff Current	I _{CB0}	V _{CB} =(-) 20V, I _E =0			(-) 0.1	μA
Emitter Cutoff Current	I _{EB0}	V _{EB} =(-) 4V, I _C =0			(-) 0.1	μA
DC Current Gain	h _{FE} (1)	V _{CE} =(-) 2V, I _C =(-) 0.1A	100*		560*	
		V _{CE} =(-) 2V, I _C =(-) 1.5A	65	130		
Gain-Bandwidth Product	f _T	V _{CE} =(-) 10V, I _C =(-) 50mA		150		MHz
Common Base Output Capacitance	C _{ob}	V _{CB} =(-) 10V, f=1MHz		19		pF
				(32)		
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-) 1.5A, I _B =(-) 75mA		0.18	0.4	V
Base to Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-) 1.5A, I _B =(-) 75mA		(-0.35) (-0.6)		V

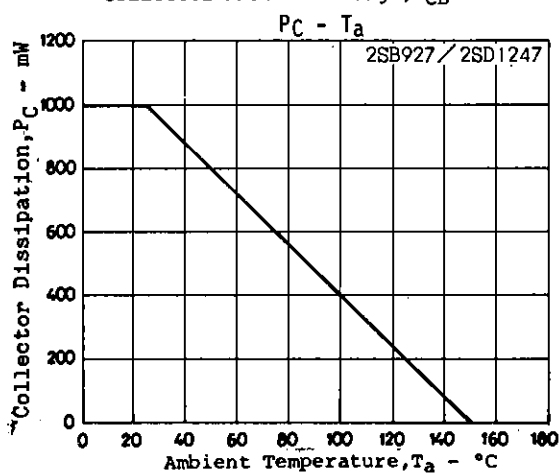
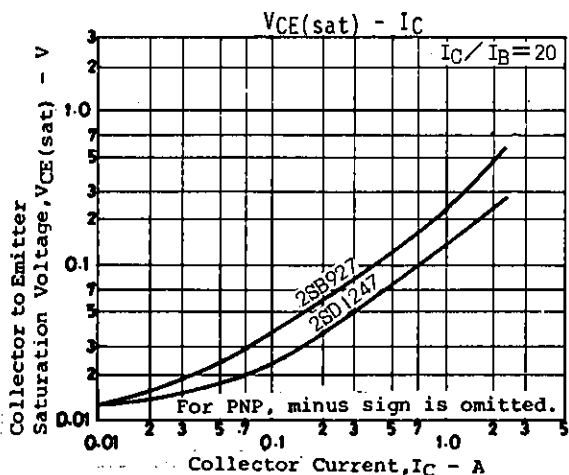
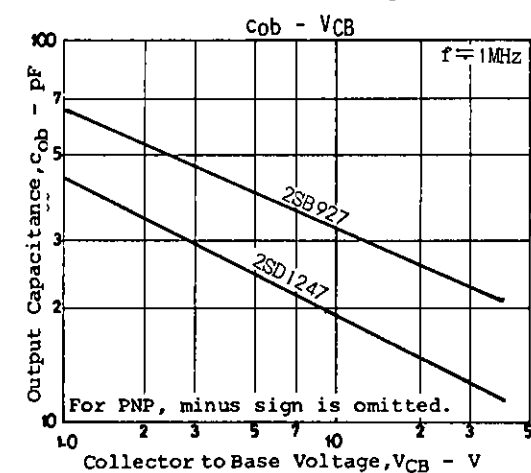
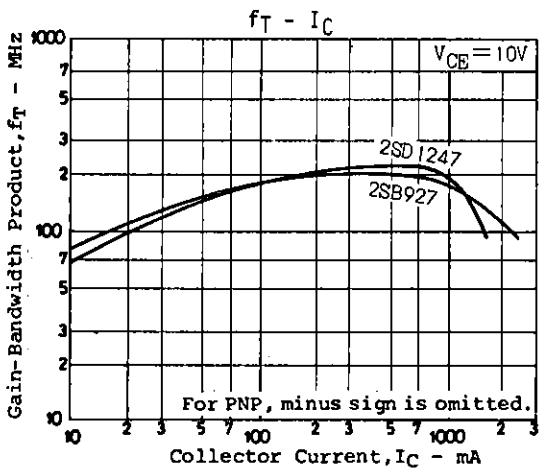
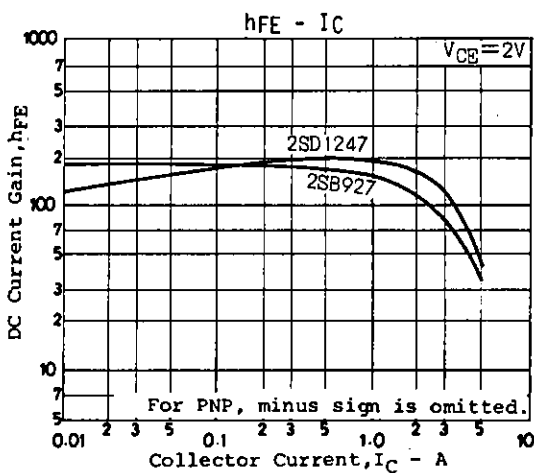
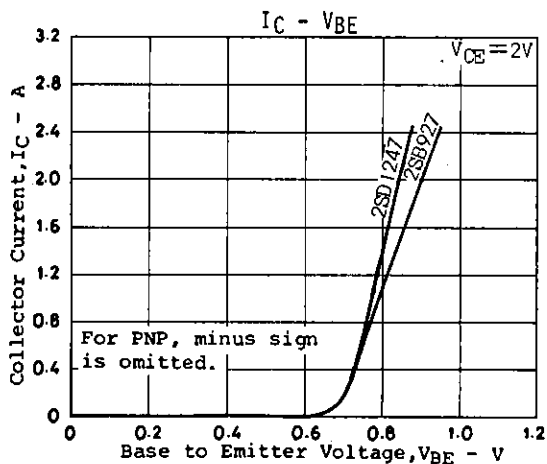
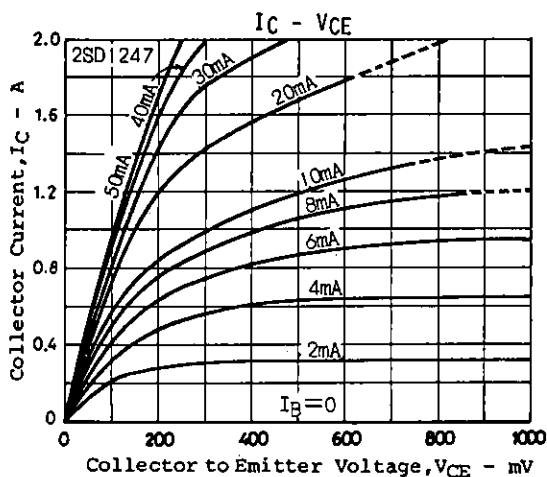
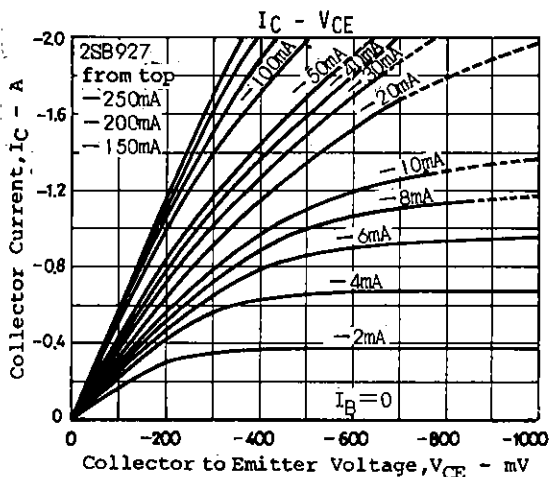
* The 2SB927/2SD1247 are classified by 0.1A h_{FE} as follows :

100 R	200	140 S	280	200 T	400	280 U	560
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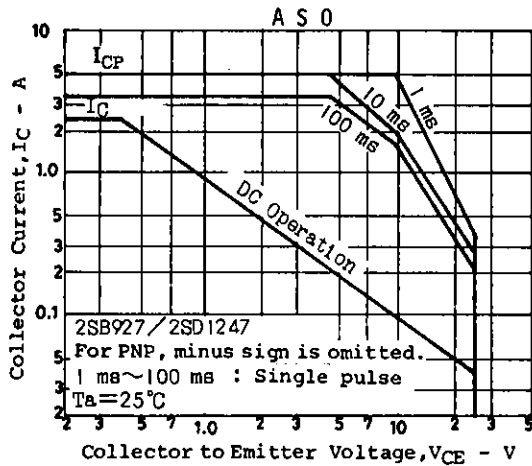
Package Dimensions 2006A
(unit: mm)



2SB927/2SD1247



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