

SANYO	No.2267B	2 S B 1 2 7 1 / 2 S D 1 9 0 7
		PNP/NPN Epitaxial Planar Type Silicon Transistors

HIGH-CURRENT SWITCHING APPLICATIONS

Applications

- Suitable for relay drivers, high-speed inverters, converters, and other general high-current switching applications

Features

- Suitable for sets whose height is restricted
- Low collector to emitter saturation voltage
- Large current capacity

(): 2SB1271

Absolute Maximum Ratings at Ta=25°C

			unit
Collector to Base Voltage	V _{CB0}	(-)90	V
Collector to Emitter Voltage	V _{CEO}	(-)80	V
Emitter to Base Voltage	V _{EBO}	(-)6	V
Collector Current	I _C	(-)7	A
Peak Collector Current	i _{cp}	(-)12	A
Collector Dissipation	P _C	1.65	W
		Tc=25°C	40
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

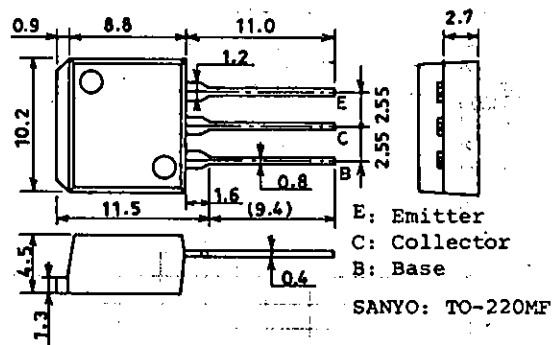
Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Collector Cutoff Current	I _{CB0}	V _{CB} =(-)80V, I _E =0			(-)0.1	mA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)0.1	mA
DC Current Gain	h _{FE} (1)	V _{CE} =(-)2V, I _C =(-)1A	70*		280*	
	h _{FE} (2)	V _{CE} =(-)2V, I _C =(-)4A	30			
Gain-Bandwidth Product	f _T	V _{CE} =(-)5V, I _C =(-)1A		20		MHz
C-E Saturation Voltage	V _{CE(sat)}	I _C =(-)4A, I _B =(-)0.4A			0.4	V
					(-0.5)	
C-B Breakdown Voltage	V _{(BR)CBO}	I _C =(-)1mA, I _E =0	(-)90			V
C-E Breakdown Voltage	V _{(BR)CEO}	I _C =(-)1mA, R _{BE} =∞	(-)80			V
E-B Breakdown Voltage	V _{(BR)EBO}	I _E =(-)1mA, I _C =0	(-)6			V
Turn-on Time	t _{on}	See specified Test Circuit.	(0.2)	0.1		μs
Storage Time	t _{stg}	"	(0.7)	1.6		μs
Fall Time	t _f	"	(0.2)	0.4		μs

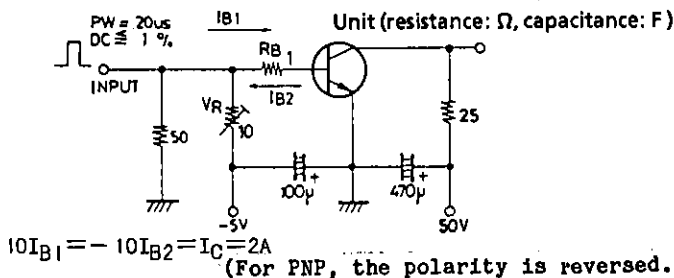
*: The 2SB1271/2SD1907 are classified by 1A h_{FE} as follows:

70	Q	140	100	R	200	140	S	280
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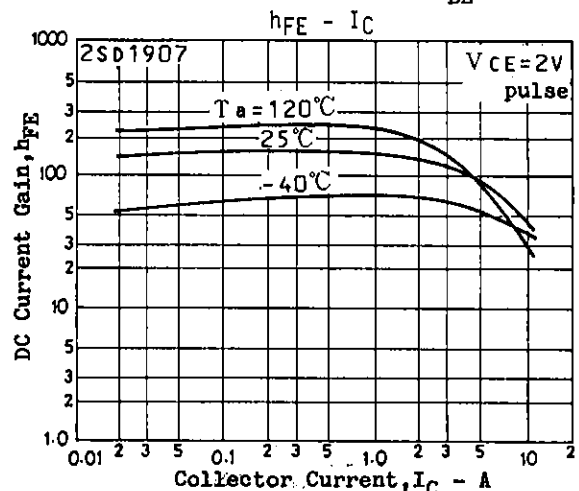
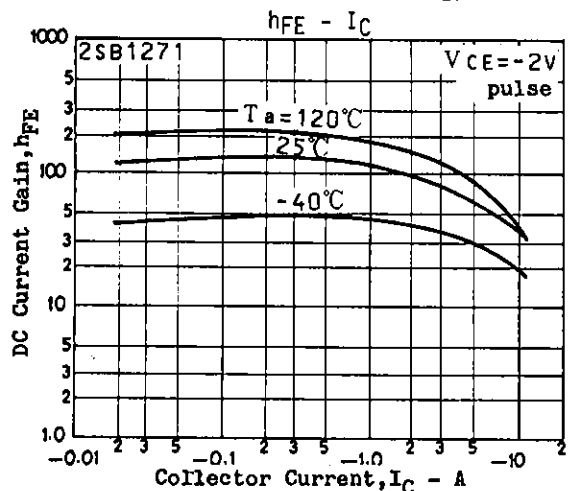
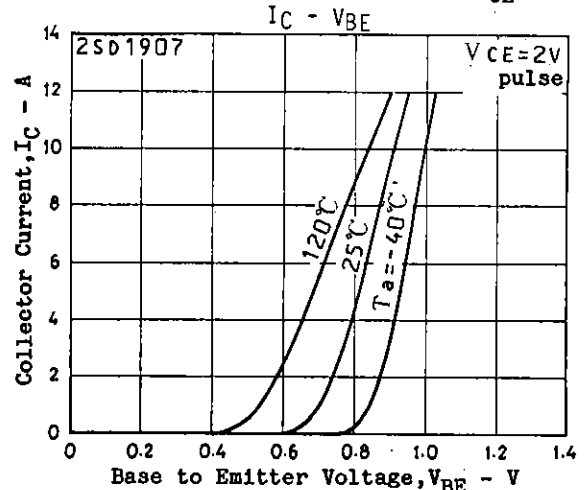
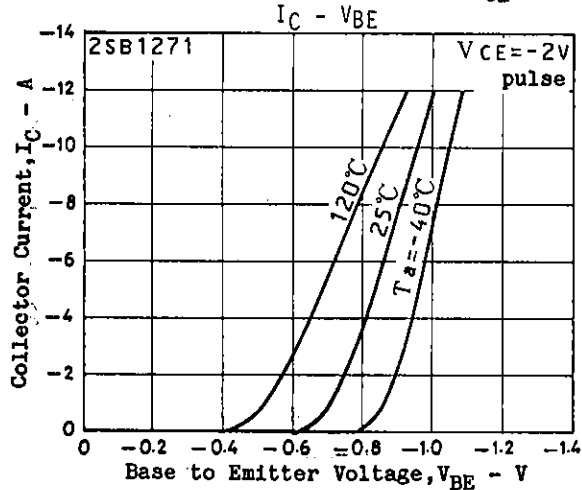
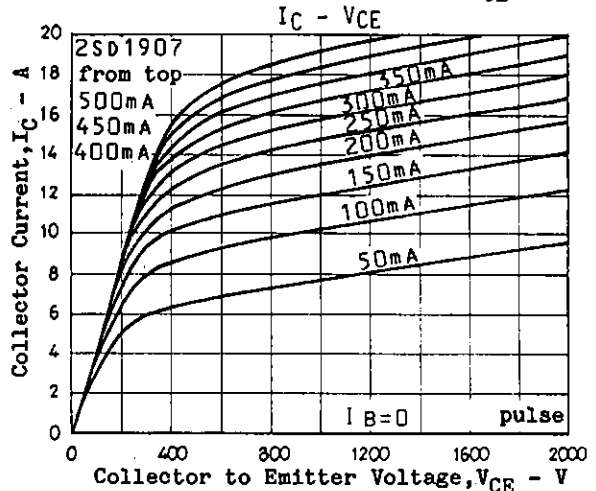
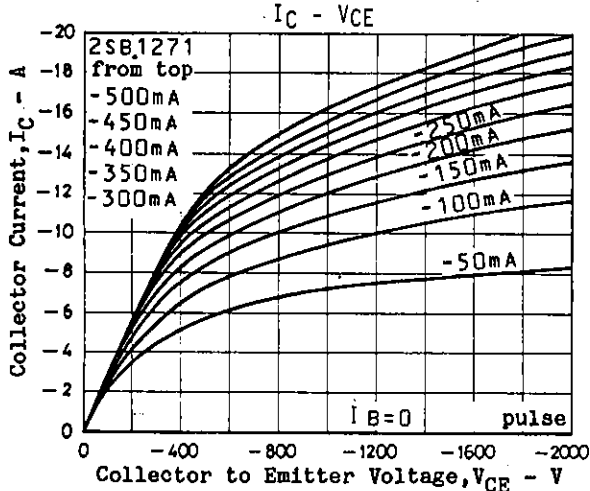
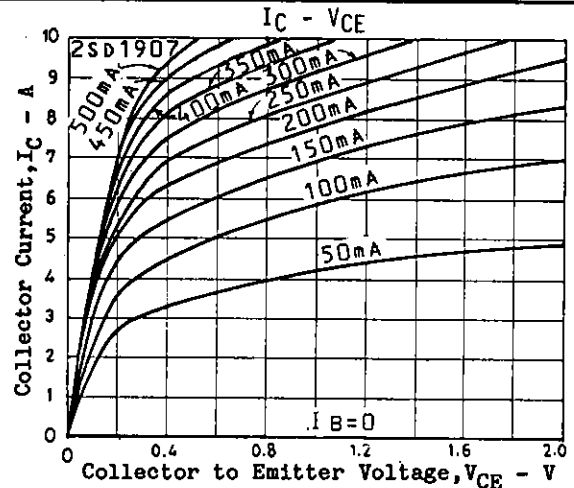
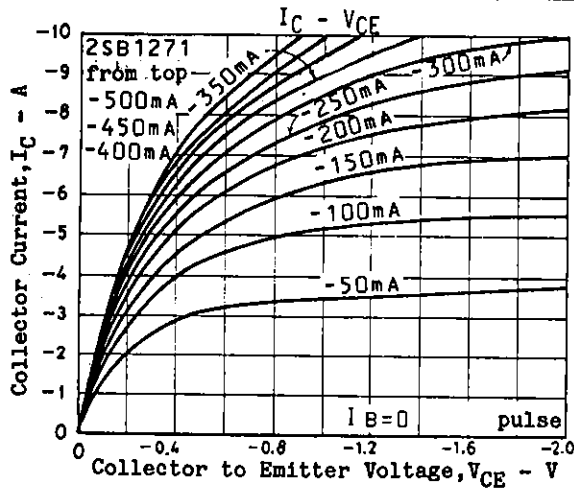
Package Dimensions 2049B
(unit: mm)



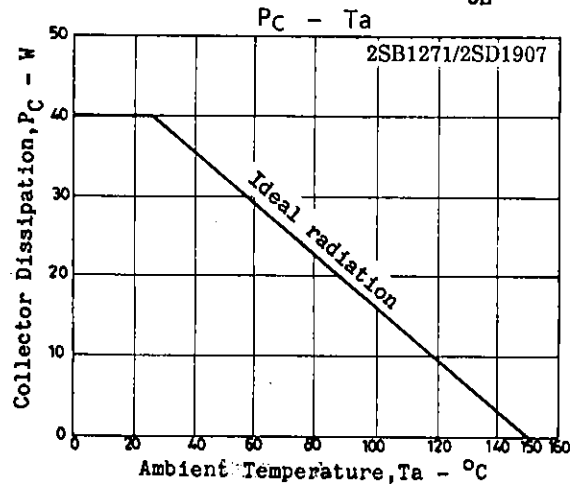
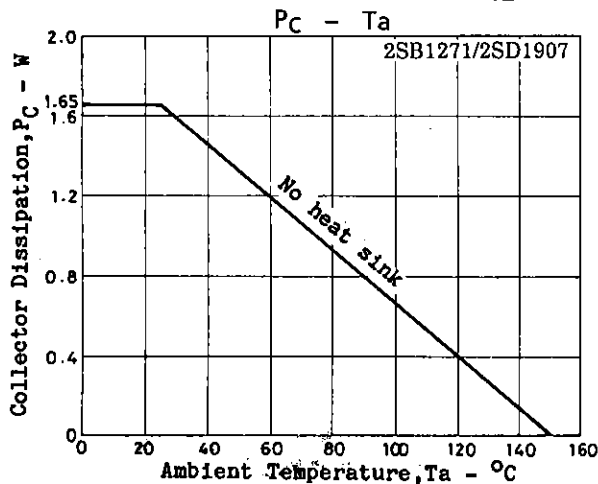
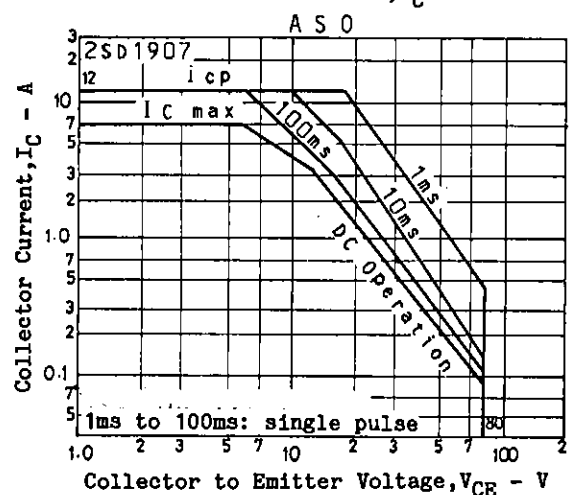
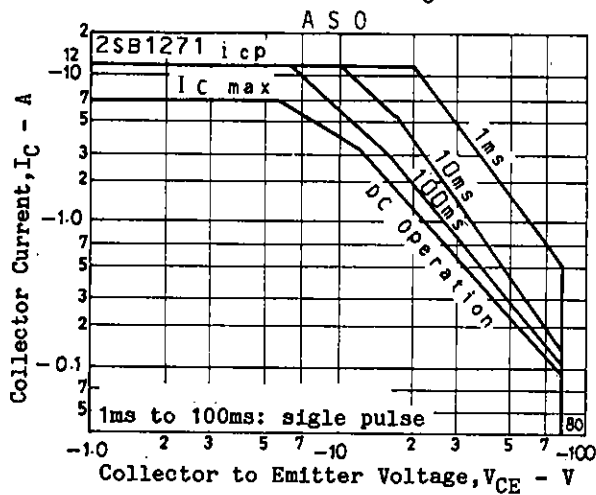
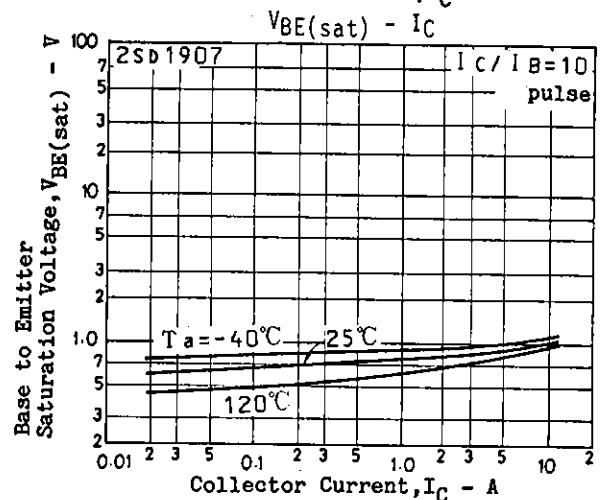
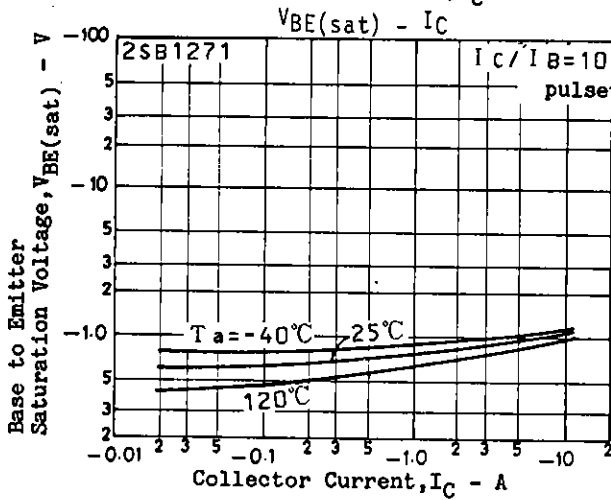
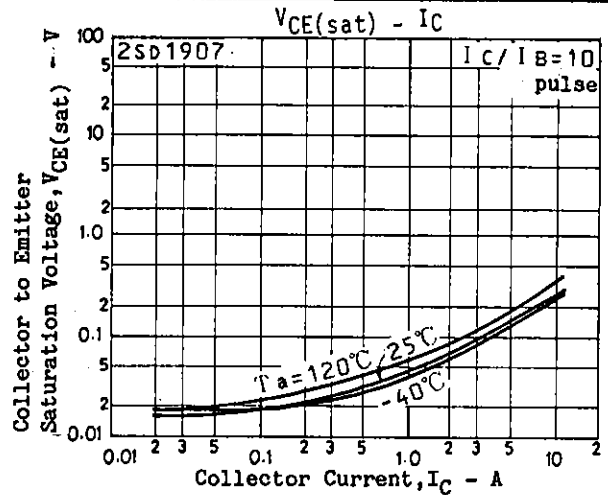
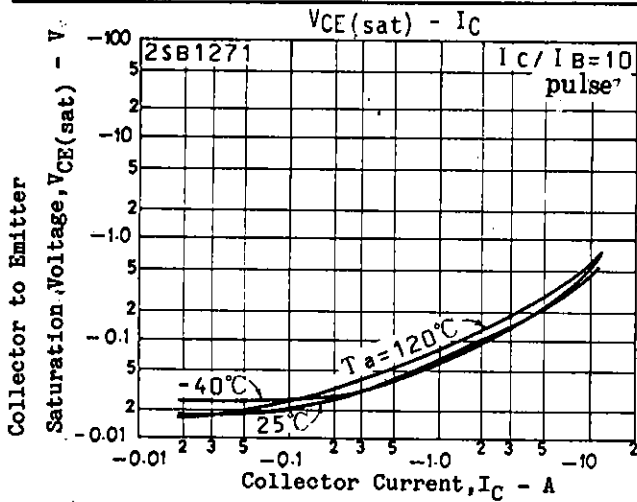
Switching Time Test Circuit



2SB1271/2SD1907



2SB1271/2SD1907



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