

SANYO	No.784E	2SD1145
		NPN Epitaxial Planar Silicon Transistor High-Current Driver Applications

Applications

- Relay drivers, hammer drivers, lamp drivers, strobe DC-DC converttrers, motor drivers.

Features

- Low saturation voltage
- Large current capacity and wide ASO

Absolute Maximum Ratings at Ta = 25°C

			unit
Collector to Base Voltage	V _{CB0}	60	V
Collector to Emitter Voltage	V _{CEO}	20	V
Emitter to Base Voltage	V _{EBO}	6	V
Collector Current	I _C	5	A
Collector Current(Pulse)	I _{CP}	8	A
Collector Dissipation	P _C	0.9	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	- 55 to + 150	°C

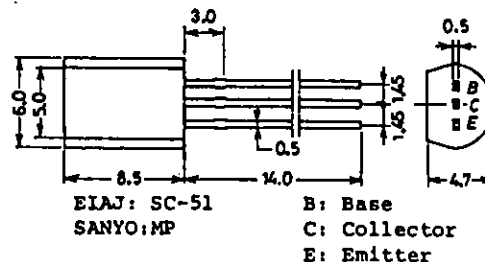
Electrical Characteristics at Ta = 25°C

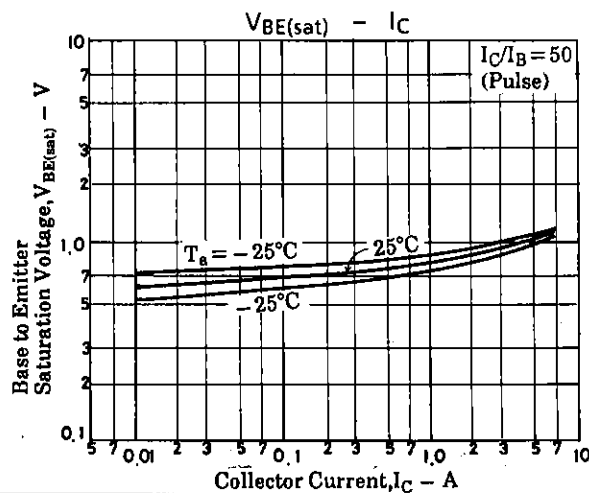
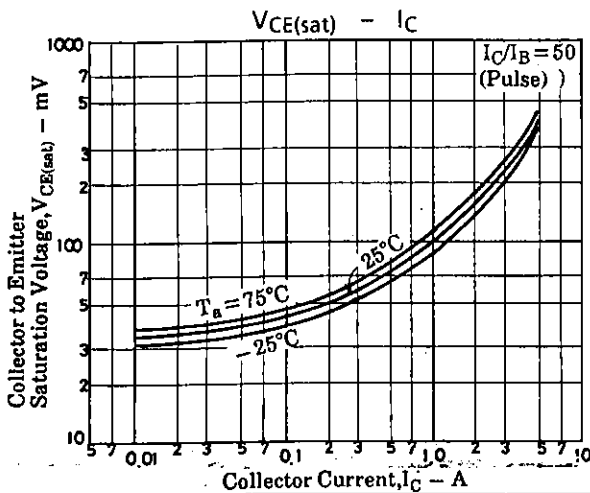
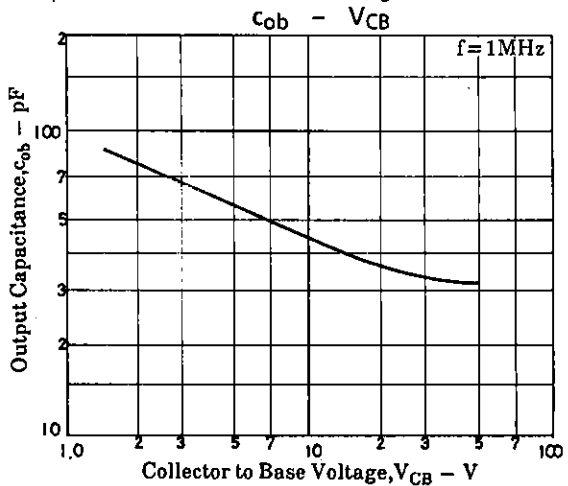
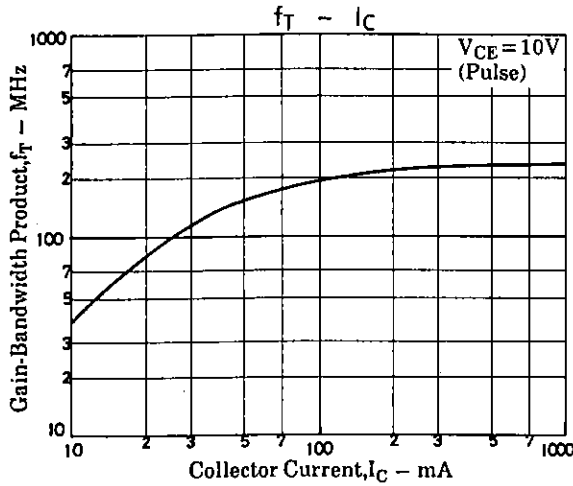
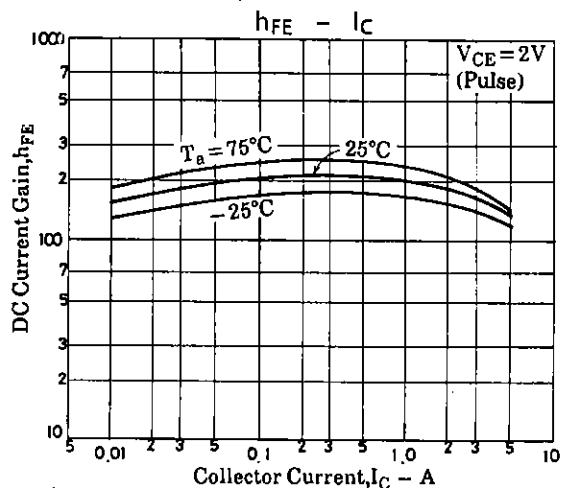
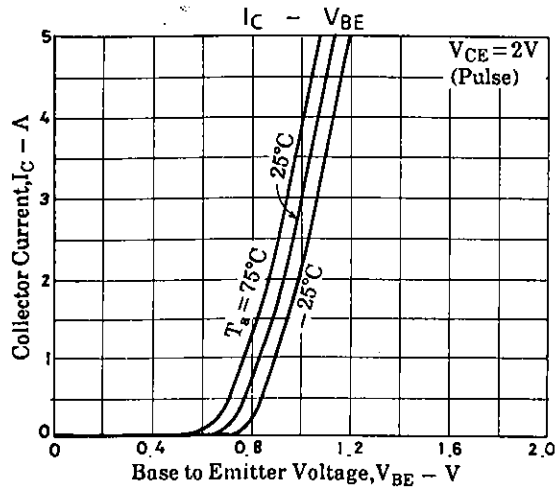
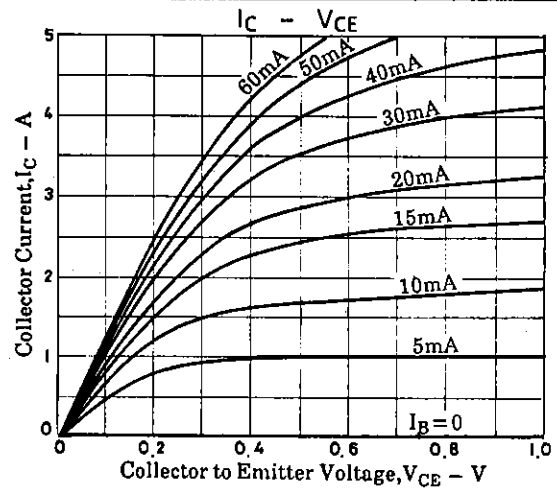
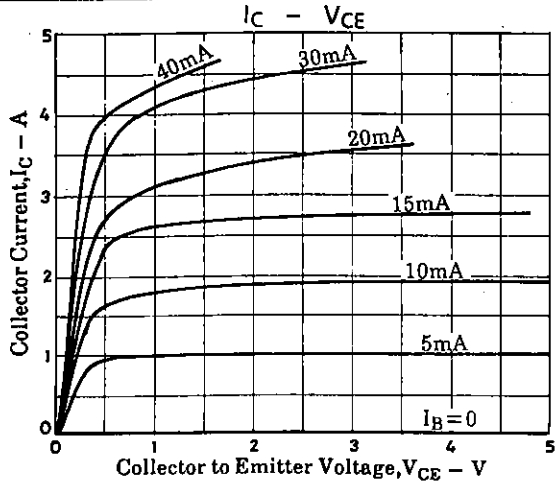
			min	typ	max	unit
Collector Cutoff Current	I _{CB0}	V _{CB} = 50V, I _E = 0			1.0	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} = 5V, I _C = 0			1.0	μA
DC Current Gain	h _{FE} (1)	V _{CE} = 2V, I _C = 0.5A	100*		560*	
	h _{FE} (2)	V _{CE} = 2V, I _C = 3A (Pulse)	75			
Gain-Bandwidth Product	f _T	V _{CE} = 10V, I _C = 50mA		120		MHz
Output Capacitance	c _{ob}	V _{CB} = 10V, f = 1MHz		45		pF
C-E Saturation Voltage	V _{CE(sat)}	I _C = 3A, I _B = 60mA (Pulse)			0.5	V
B-E Saturation Voltage	V _{BE(sat)}	I _C = 3A, I _B = 60mA (Pulse)			1.5	V

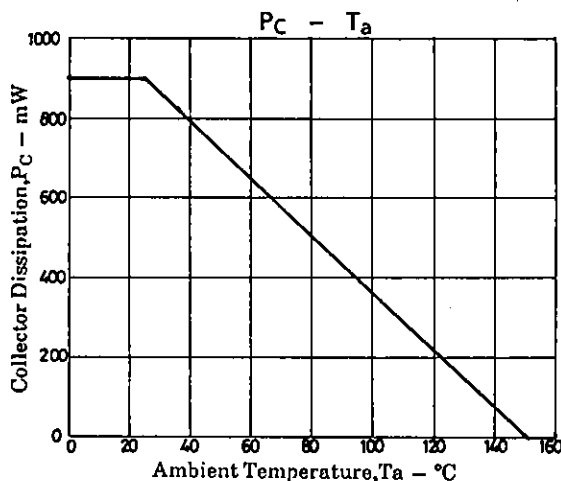
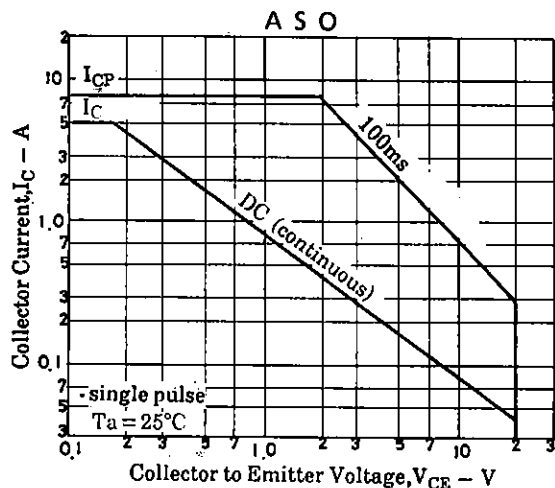
※ : The 2SD1145 is classified by 0.5A h_{FE} as follows :

100	E	200	160	F	320	280	G	560
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Package Dimensions 2006A
(unit: mm)







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