

查询"2SC4836"供应商

SANYO	No.4134	2SC4836
	NPN Epitaxial Planar Silicon Transistor 20V/5A Switch Applications	

Applications

- Strobes, power supplies, relay drivers, lamp drivers.

Features

- Large allowable collector dissipation.
- Low saturation voltage.
- Large current capacity.
- Fast switching speed.
- Usage of radial taping to meet automatic mounting.

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
Peak Collector Current	i _{cp}	8	A
Collector Dissipation	P _C	1.5	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 _{CBO}	V _{CB} = 50V, I _E = 0			100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} = 5V, I _C = 0			100	nA
DC Current Gain	h _{FE} (1)	V _{CE} = 2V, I _C = 500mA	120※		560※	
	h _{FE} (2)	V _{CE} = 2V, I _C = 3A	95			
Gain Bandwidth Product	f _T	V _{CE} = 10V, I _C = 50mA		120		MHz
Output Capacitance	C _{ob}	V _{CB} = 10V, f = 1MHz		45		pF

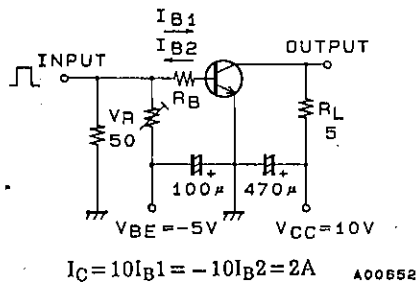
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※ : The 2SC4836 is classified by 500mA h_{FE} as follows :

120 E 200	160 F 320	280 G 560
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Switching Time Test Circuit

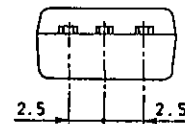
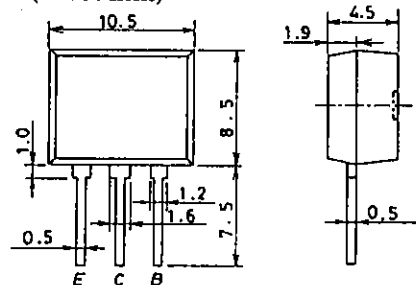
PW = 20μs
DC ≤ 1%



Unit (resistance : Ω, capacitance : F)

Package Dimensions 2084

(unit : mm)

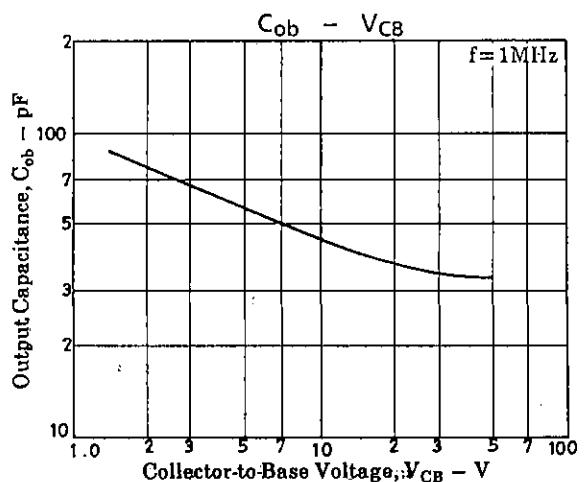
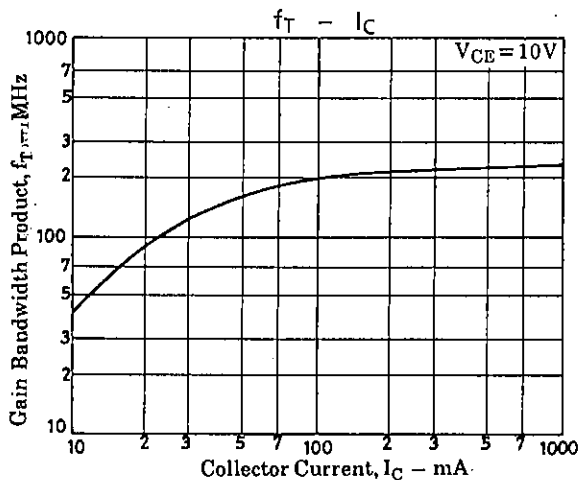
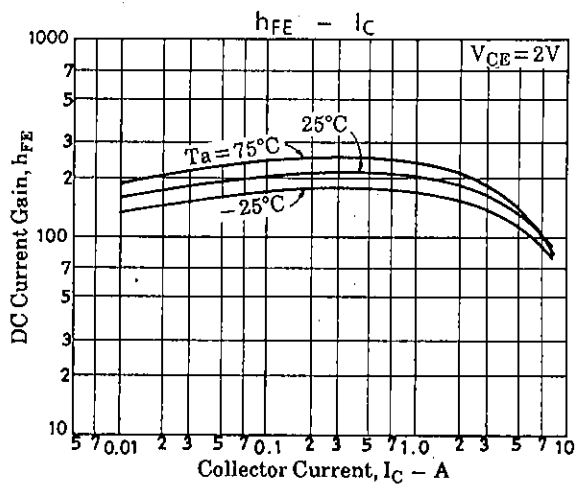
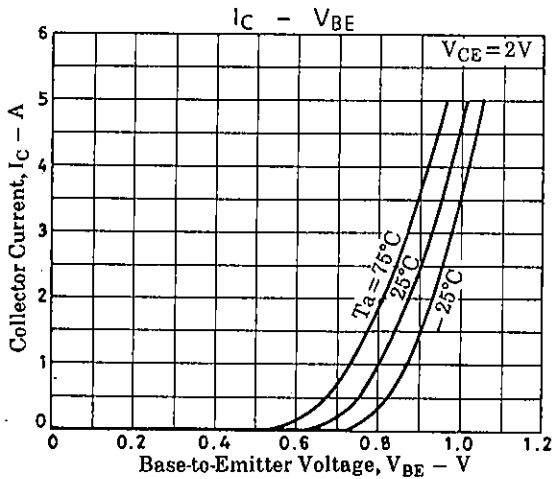
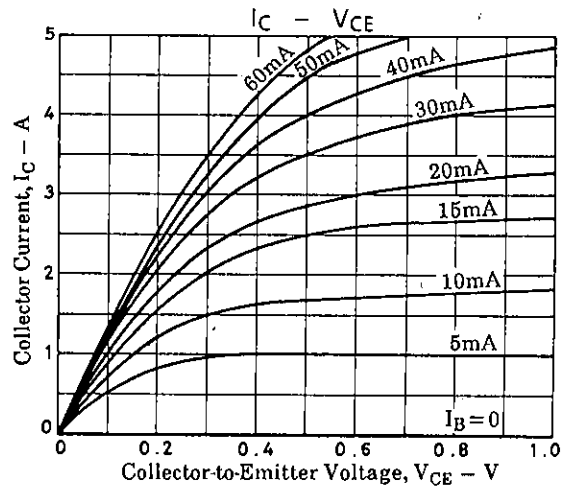
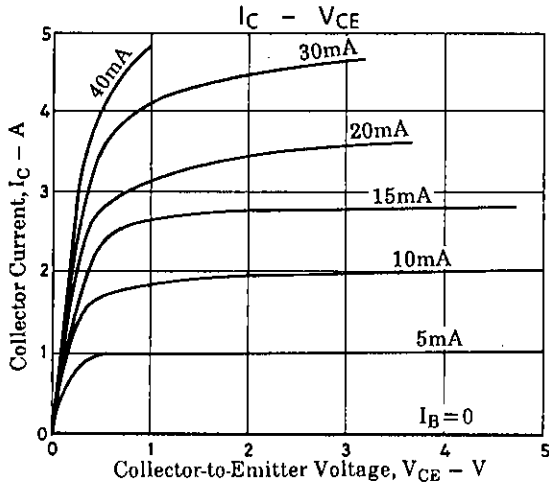


E : Emitter
C : Collector
B : Base

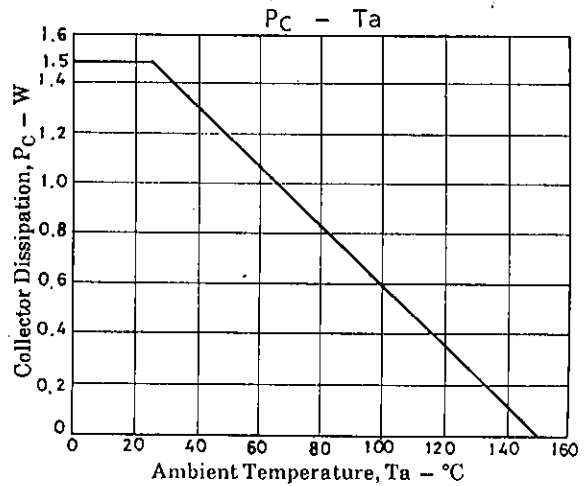
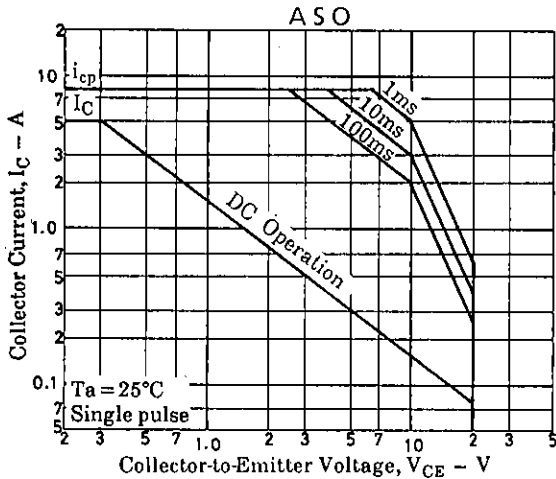
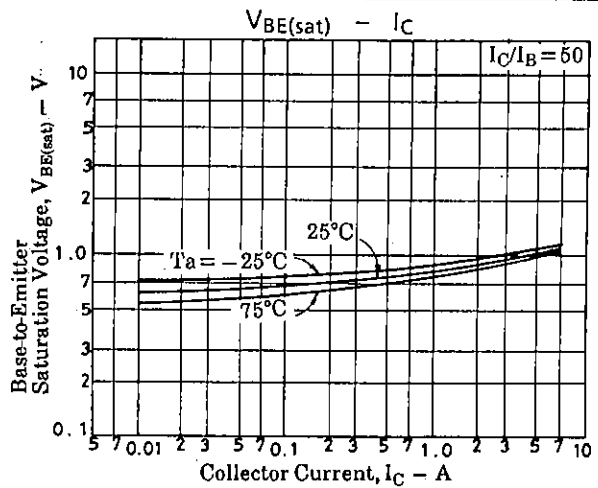
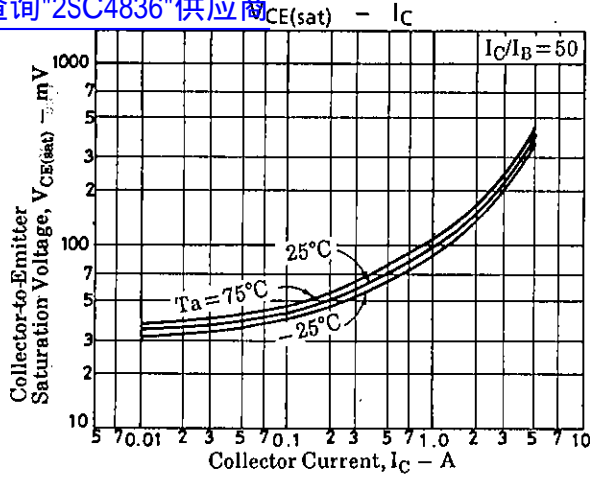
SANYO : FLP

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			min	typ	max	unit
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 3A, I_B = 60mA$		220	500	mV
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = 3A, I_B = 60mA$			1.5	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10\mu A, I_E = 0$	60			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1mA, R_{BE} = \infty$	20			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu A, I_C = 0$	6			V
Turn ON Time	t_{on}	See specified Test Circuit.		30		ns
Storage Time	t_{stg}	"		300		ns
Fall Time	t_f	"		40		ns



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