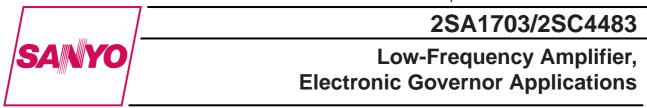
PNP/NPN Epitaxial Planar Silicon Transistor

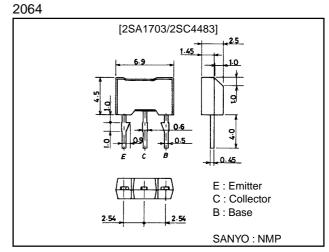


Features

· Low collector-to-emitter saturation voltage.

Package Dimensions

unit:mm



(): 2SA1703

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(-)30	V
Collector-to-Emitter Voltage	VCEO		(–)25	V
Emitter-to-Base Voltage	V _{EBO}		(–)5	V
Collector Current	۱ _C		()1.5	A
Collector Current (Pulse)	I _{CP}		(-)3	A
Collector Dissipation	PC		1	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =(-)20V, I _E =0			(–)100	nA
Emitter Cutoff Current	IEBO	V _{EB} =(-)4V, I _C =0			(–)100	nA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)50mA	100*		400*	
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)1A	40			
Gain-Bandwidth Product	fT	V _{CE} =(-)10V, I _C =(-)50mA		(180)		MHz
				150		MHz

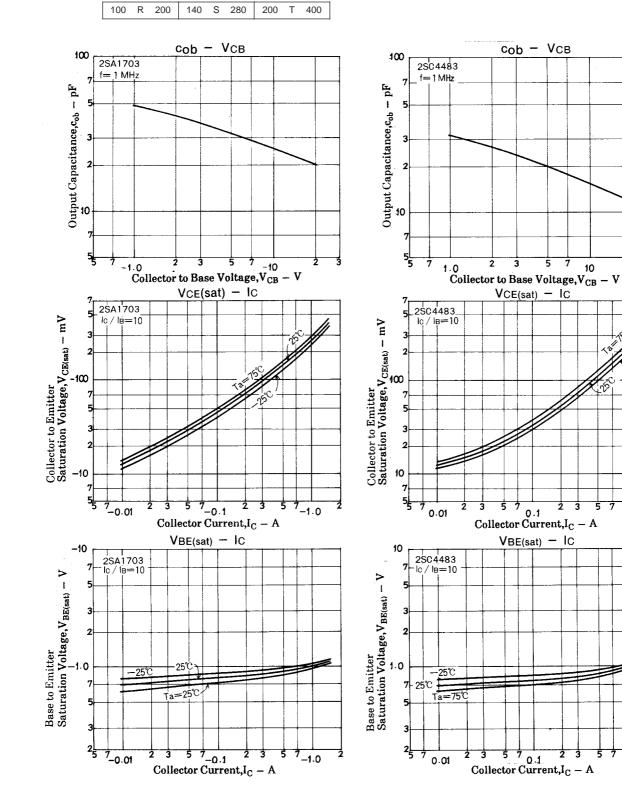
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2SA1703/2SC4483

Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(-0.15)	(-0.5)	V
				0.12	0.3	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(-)0.9	(–)1.2	V
Output Capacitance	Cob	V _{CB} =(-)10V, f=1MHz		(25)15		pF
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)10µA, I _E =0	(–)30			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =(−)1mA, R _{BE} =∞	(–)25			V
Emitter-to-Base Breakdown Votage	V(BR)EBO	I _E =(-)10µA, I _C =0	(–)5			V

* : The 2SA1703/2SC4483 are classified by 50mA h_{FE} as follows :



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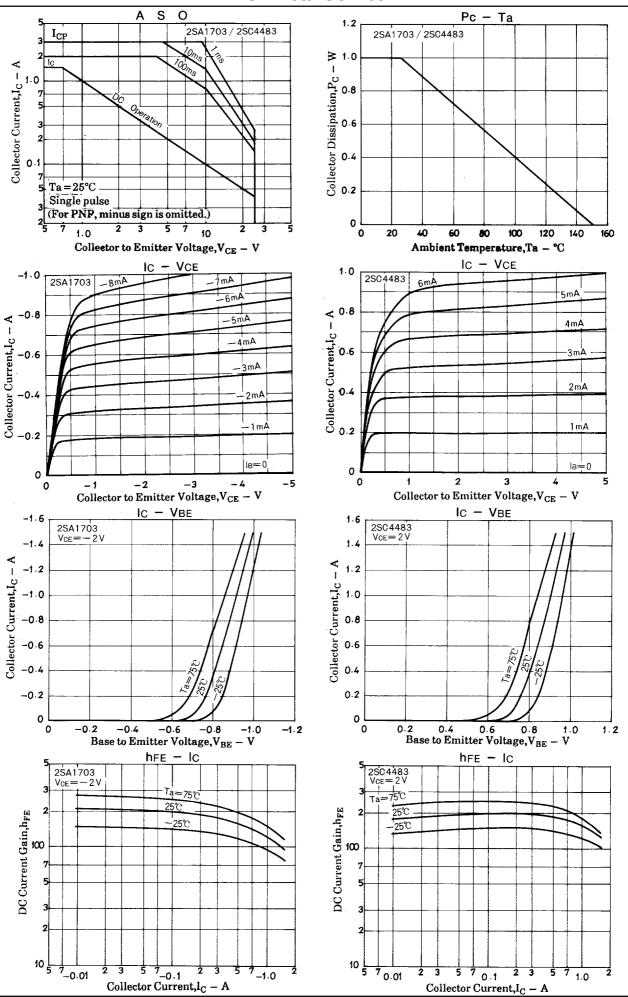
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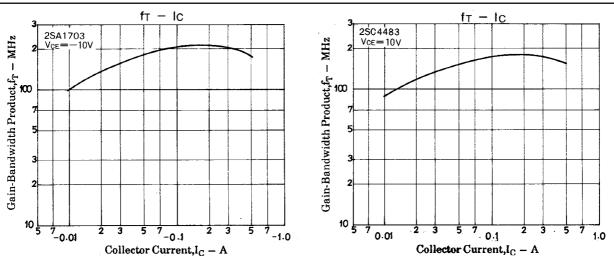
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