

2SA1703/2SC4483

Low-Frequency Amplifier, Electronic Governor Applications

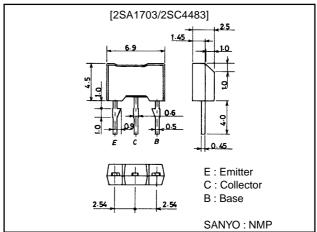
Features

 \cdot Low collector-to-emitter saturation voltage.

Package Dimensions

unit:mm

2064



(): 2SA1703

Specifications

Absolute Maximum Ratings at Ta = 25°C

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

Electrical Characteristics at Ta = 25°C

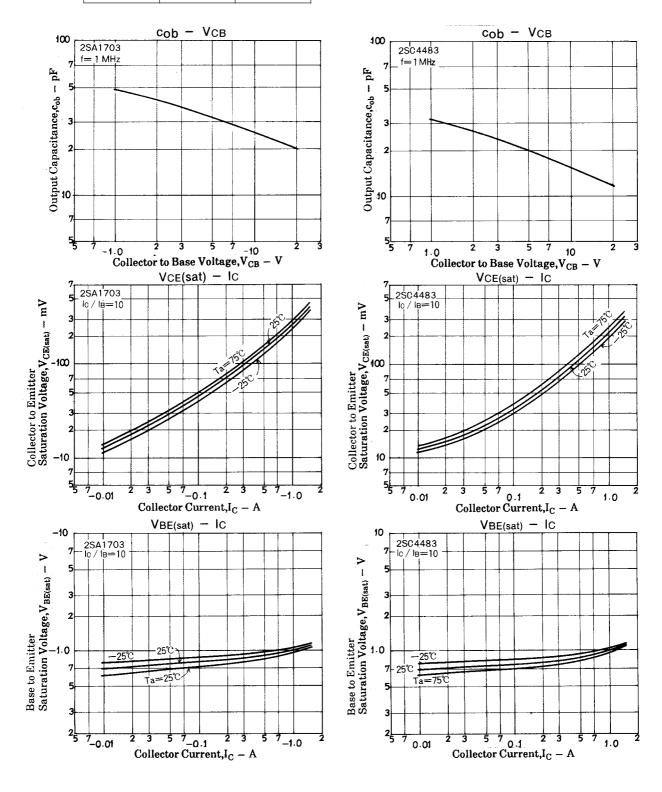
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)20V, I _E =0			(-)100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(–)100	nA
DC Current Gain	h _{FE} 1	$V_{CE}=(-)2V, I_{C}=(-)50mA$	100*		400*	
	h _{FE} 2	V _{CE} =(-)2V, I _C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

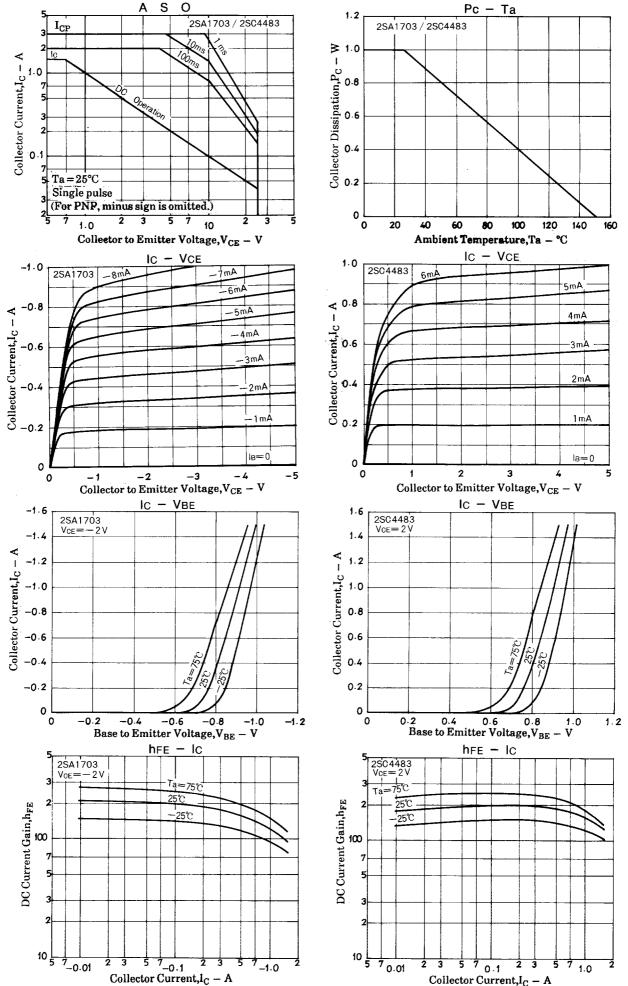
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max] Offit
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(-0.15)	(-0.5)	V
				0.12	0.3	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(–)0.9	(-)1.2	V
Output Capacitance	C _{ob}	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

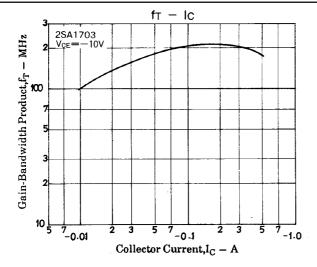
^{* :} The 2SA1703/2SC4483 are classified by 50mA h_{FE} as follows :

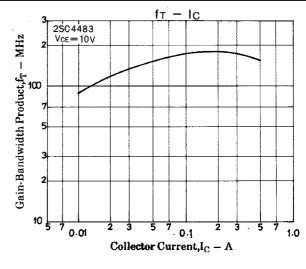
100 R 200	140 S 280	200 T 400
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2SA1703/2SC4483





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