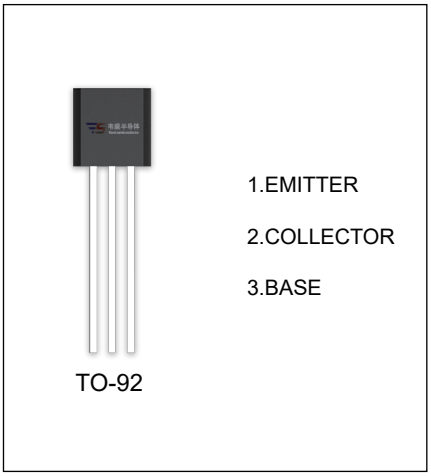
2SA719/2SA720 42AN3)34/2 (0N0)



FEATURES

- **For Low-Frequency Power Amplification and Driver Amplification**

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SA719/2SA720	TO-92	Bulk	1000pcs/Bag
2SA719-TA/2SA720-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter		Value	Unit
V_{CBO}	Collector-Base Voltage	**2SA719**	-30	V
		2SA720	-60	V
V_{CEO}	Collector-Emitter Voltage	**2SA719**	-25	V
		2SA720	-50	V
V_{EBO}	Emitter-Base Voltage		-5	V
I_C	Collector Current -Continuous		-0.5	A
P_D	Collector Power Dissipation		625	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient		200	℃ /W
T_J,T_{stg}	Operation Junction and Storage Temperature Range		-55~+150	℃

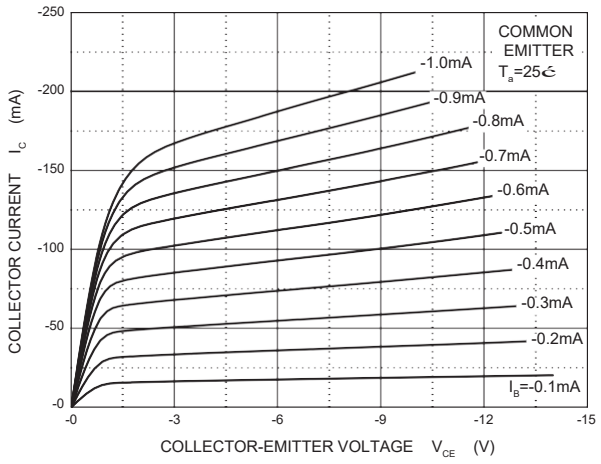
T_a=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage **2SA719** **2SA720**	6(B2)CB/	)C= -10UA,)E=0	 -30 -60			6
Collector-emitter breakdown voltage **2SA719** **2SA720**	6(B2)CE/	)C= -10MA ,)B=0	 -25 -50			6
Emitter-base breakdown voltage	6(B2)EB/	)E= -10UA,)C=0 -5				6
Collector cut-off current	)CB/	6CB= -206,)E=0			-0.1	UA
Emitter cut-off current	)EB/	6EB= -46,)C=0			-0.1	UA
DC current gain	H&E(1)	6CE=-106,)C= -150MA	85		340	
	H&E(2)	6CE=-106,)C= -500MA	40			
Collector-emitter saturation voltage	6CE(SAT)	)C=-300MA,)B= -30MA			-0.6	6
Base-emitter saturation voltage	6BE(SAT)	)C= -300MA,)B=-30MA			-1.5	6
Transition frequency	F4	6CE= -106,)C= -50MA F = 200M(Z	200			M(Z
Collector Output Capacitance	COB 6	CB=-106,)E=0,F=1M(:			15	P&

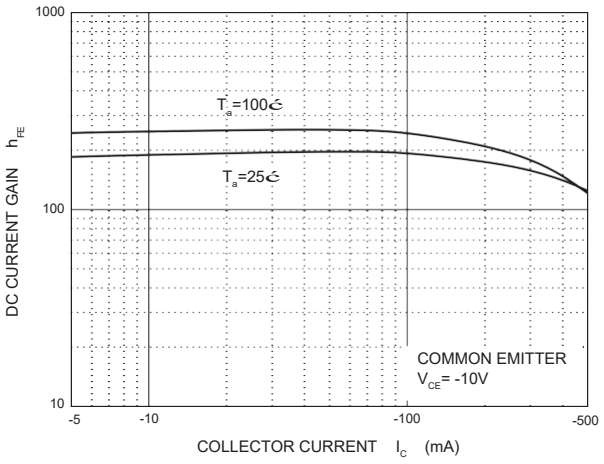
CLASSIFICATION $h_{FE(1)}$

Rank	1	2	3
Range	85-170	120-240	170-340

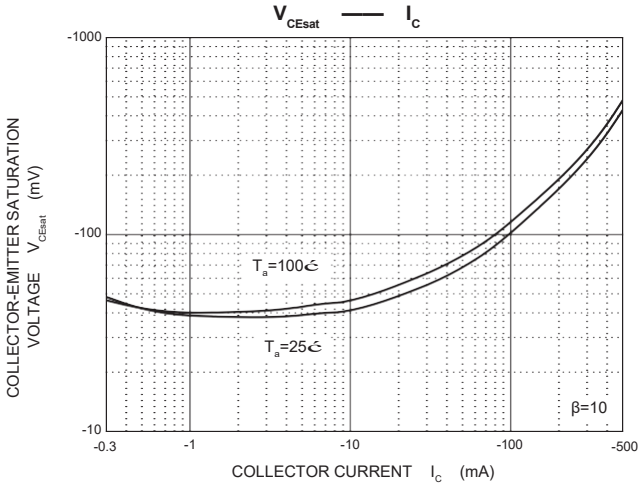
Static Characteristic



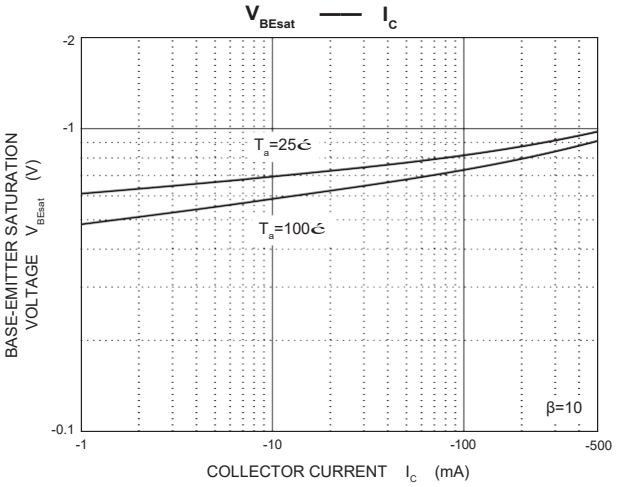
h_{FE} —— I_C



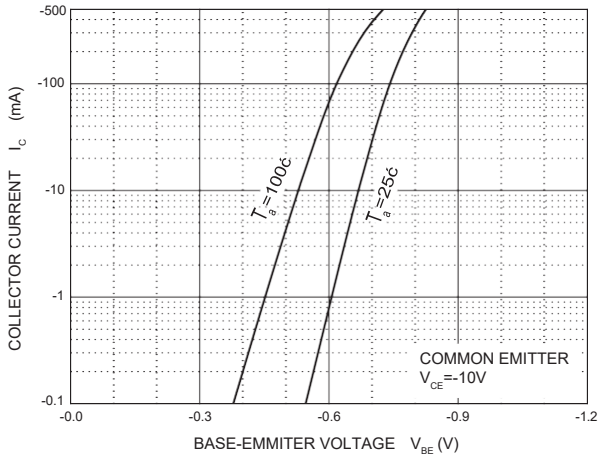
V_{CEsat} —— I_C



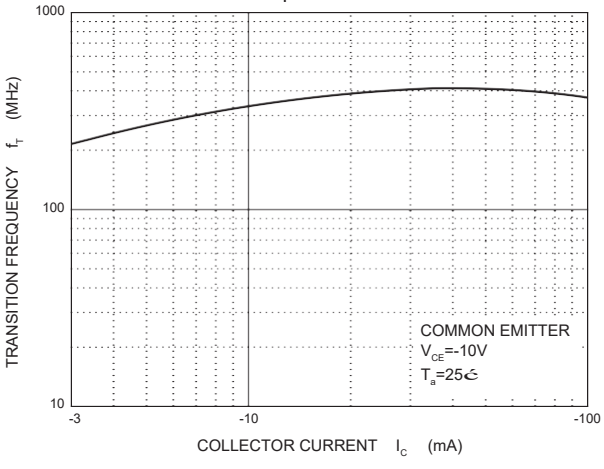
V_{BEsat} —— I_C



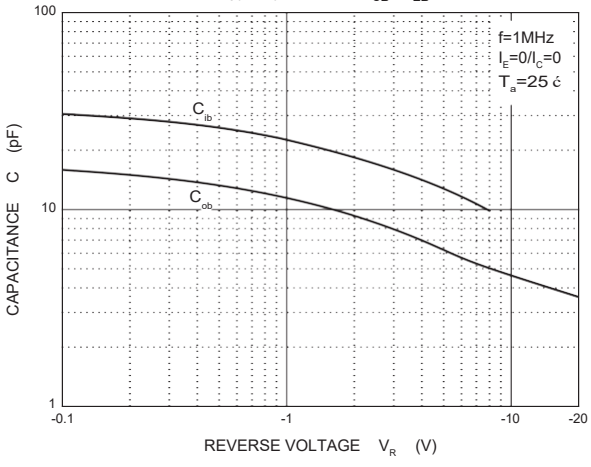
I_C —— V_{BE}



f_T —— I_C



C_{ob}/ C_{ib} —— V_{CB}/ V_{EB}



P_C —— T_a