

GSC4081

NPN EPITAXIAL PLANAR TRANSISTOR

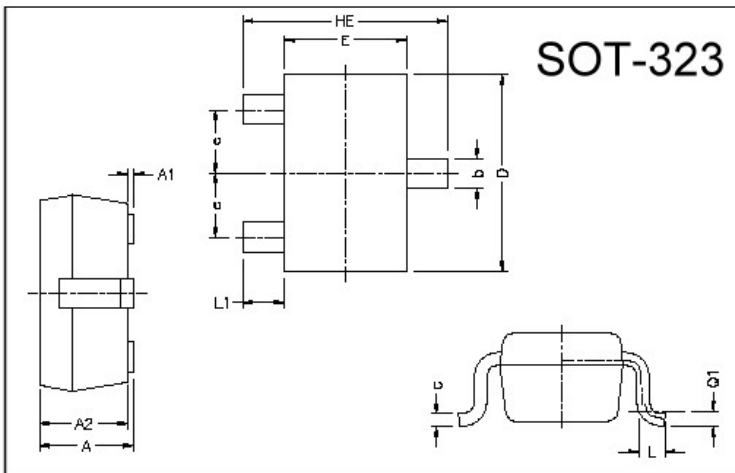
Description

The GSC4081 is designed for use in driver stage of AF amplifier and general purpose amplification.

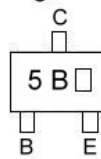
Features

- Low Cob. Cob=2.0 pF (Typ.)
- Complements the GSA1576A

Package Dimensions



Marking :



□:hFE Rank Code

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.80	1.10	L1	0.42 REF.	
A1	0	0.10	L	0.15	0.35
A2	0.80	1.00	b	0.25	0.40
D	1.80	2.20	c	0.10	0.25
E	1.15	1.35	e	0.65 REF.	
HE	1.80	2.40	Q1	0.15 BSC.	

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	60	V
Collector to Emitter Voltage	VCEO	50	V
Emitter to Base Voltage	VEBO	7	V
Collector Current	IC	150	mA
Total Power Dissipation	PD	225	mW

Characteristics at Ta = 25°C

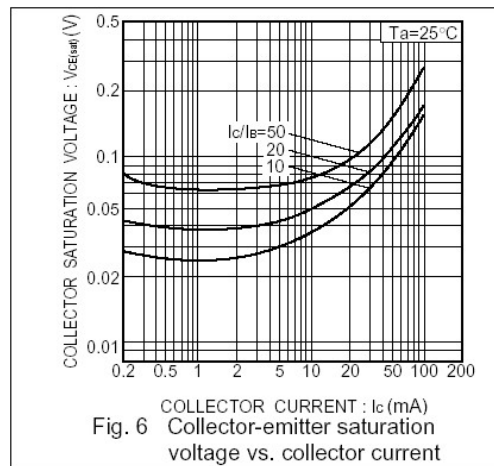
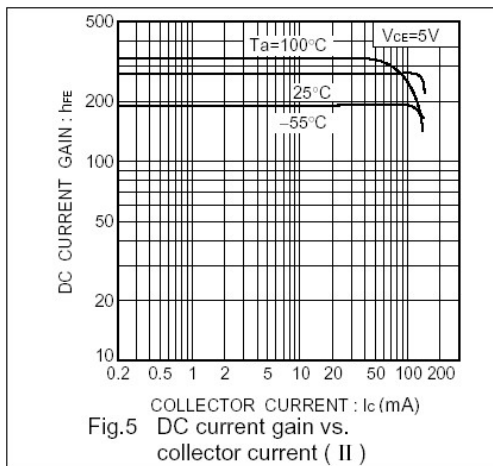
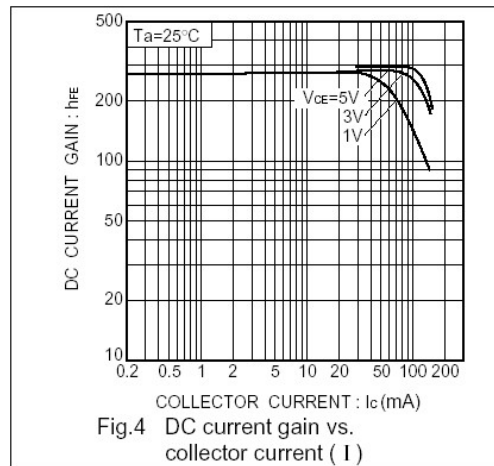
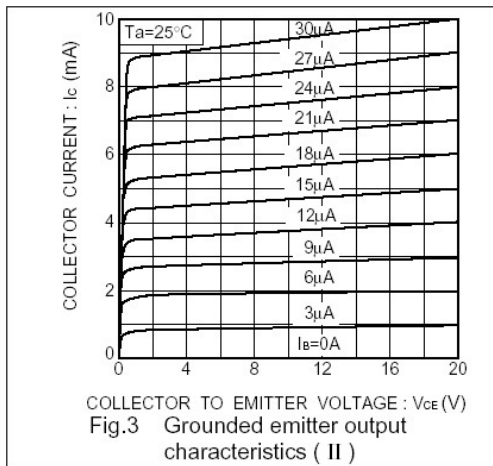
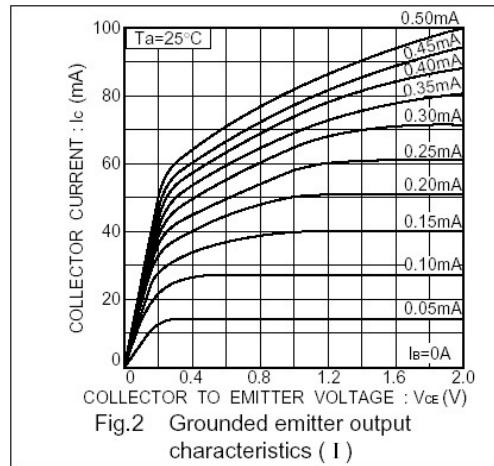
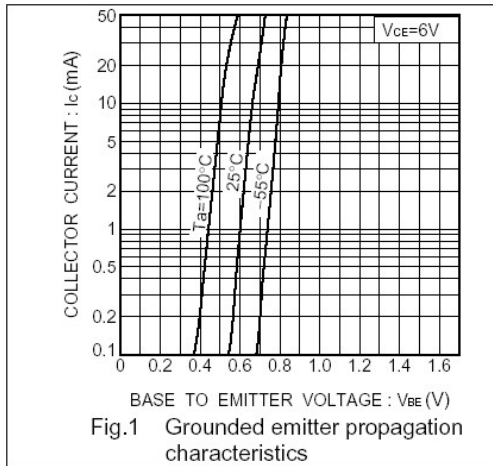
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	60	-	-	V	IC=50uA
BVCEO	50	-	-	V	IC=1mA
BVEBO	7	-	-	V	IE=50uA
ICBO	-	-	100	nA	VCB=60V
IEBO	-	-	100	nA	VEB=7V
VCE(sat)	-	-	400	mV	IC=50mA, IB=5mA
hFE	120	-	560		VCE=6V, IC=1mA
fT	-	180	-	MHz	VCE=12V, IC=2mA, f=100MHz
Cob	-	2	3.5	pF	VCB=12V, f=1MHz, IE=0

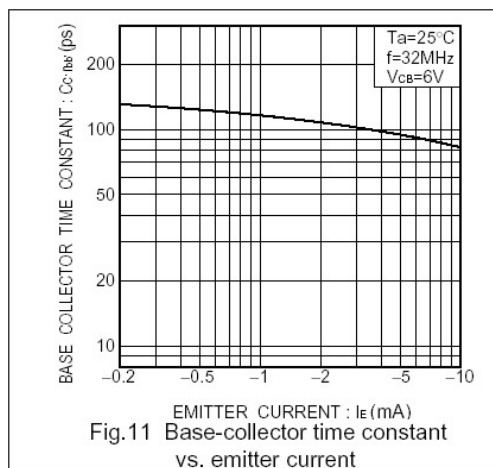
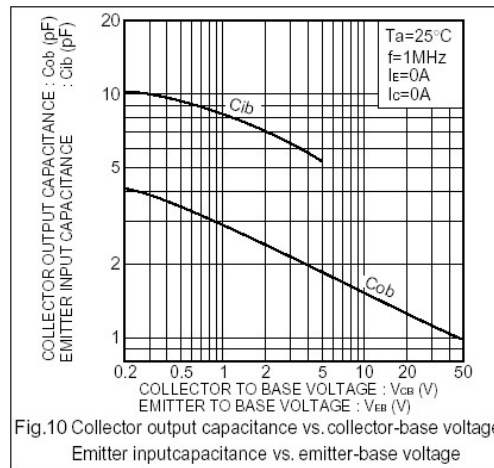
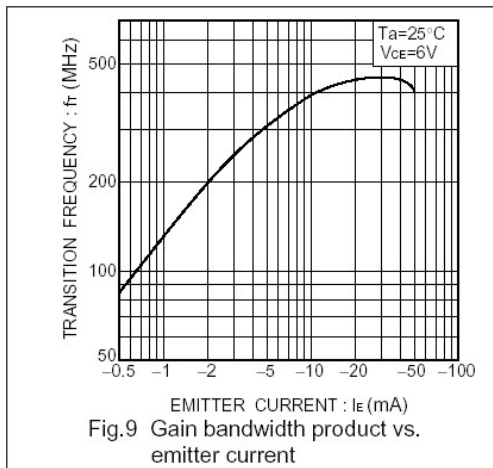
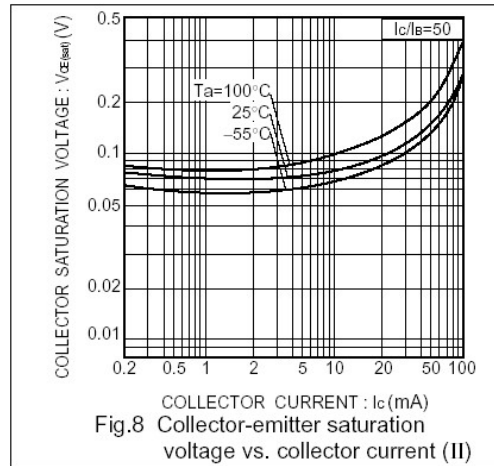
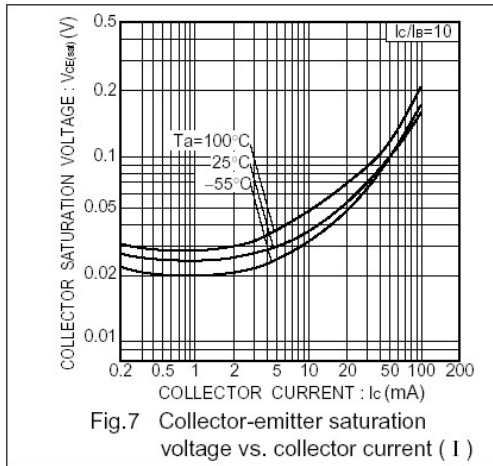
* Pulse Test: Pulse Width ≤ 380us, Duty Cycle ≤ 2%

Classification Of hFE

Rank	5BQ	5BR	5BS
Range	120 - 270	180 - 390	270 - 560

Characteristics Curve





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