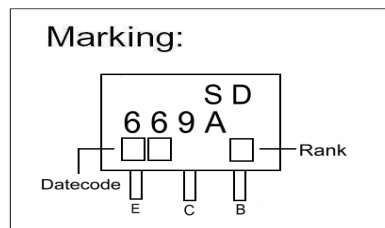
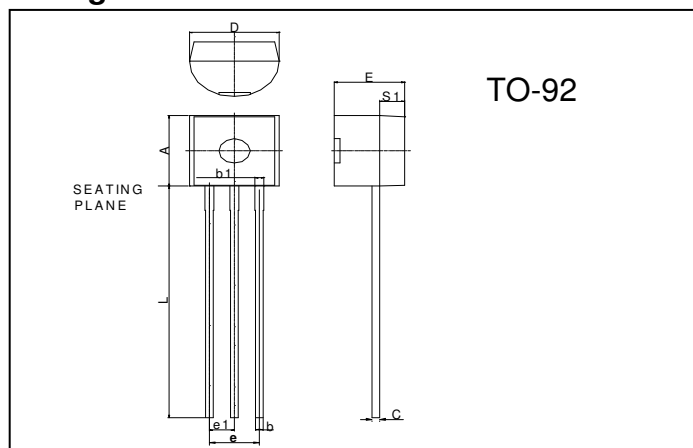


GSD669A NPN EPITAXIAL PLANAR TRANSISTOR**Description**

The GSD669A is designed for frequency power amplifier.

Features

*Low frequency power amplifier Complementary pair with GSB649A

Package Dimensions

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

Absolute Maximum Ratings(Ta = 25°C, unless otherwise specified)

Parameter		Ratings	Unit
Collector to Base Voltage	VCBO	180	V
Collector to Emitter Voltage	VCEO	160	V
Emitter to Base Voltage	VEBO	5	V
Collect Current(DC)	IC	1.5	A
Collect Current*(Pulse)	ICP	3	A
Junction Temperature	Tj	+150	°C
Storage Temperature Range	TSTG	-55 ~ +150	°C
Total Power Dissipation (TC=25°C)	Pd	1	W

Electrical Characteristics(Ta = 25°C, unless otherwise specified)

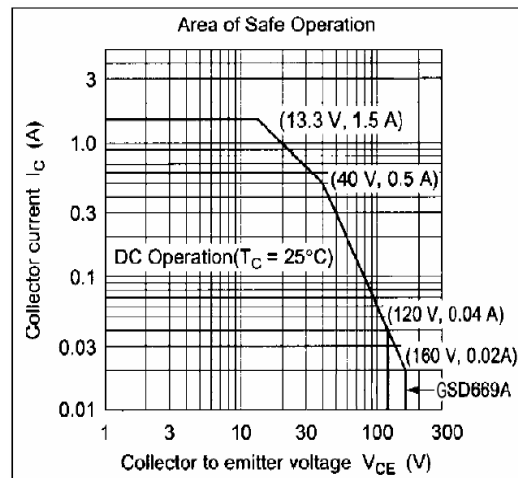
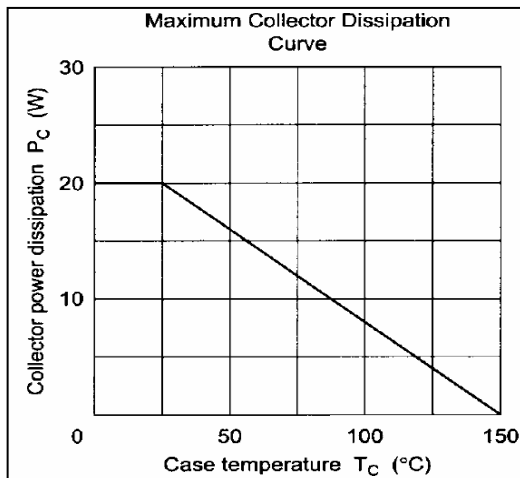
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V(BR)CBO	180	-	-	V	IC=1mA, IE=0
V(BR)CEO	160	-	-	V	IC=10mA, RBE=∞
V(BR)EBO	5	-	-	V	IE=1mA, IC=0
ICBO	-	-	10	uA	VCB=160V, IE=0
*VCE(sat)	-	-	1	V	IC=600mA, IB=50mA
*VBE(on)	-	-	1.5	V	VCE=5V, IC=150mA
*hFE1	60	-	200		VCE=5V, IC=150mA
*hFE2	30	-	-		VCE=5V, IC=500mA
fT	-	140	-	MHz	VCE=5V, IC=150mA
Cob	-	14	-	pF	VCB=10V, IE=0, f=1MHz

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

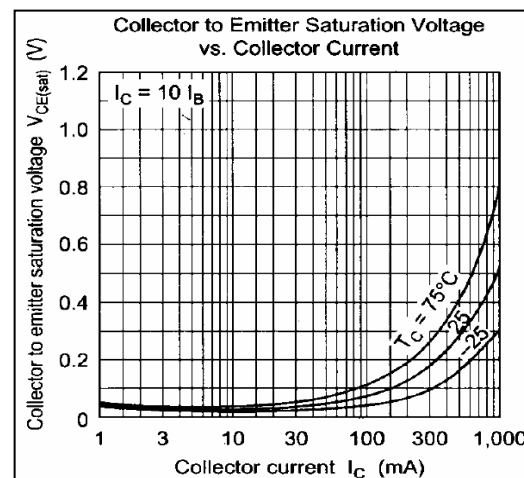
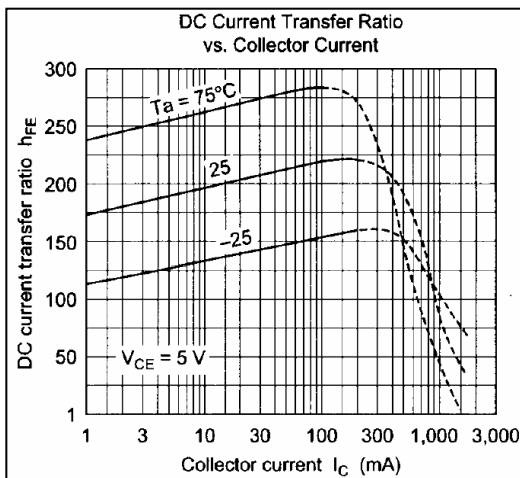
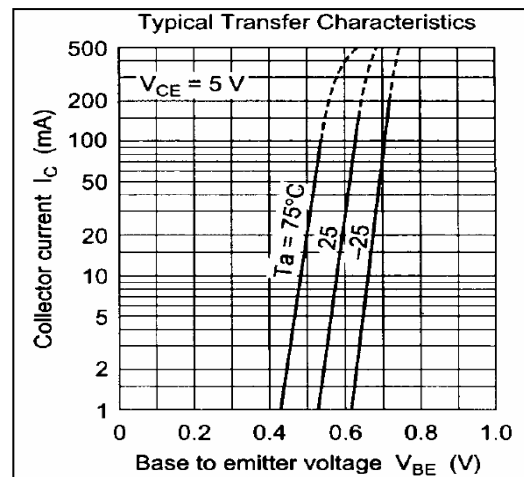
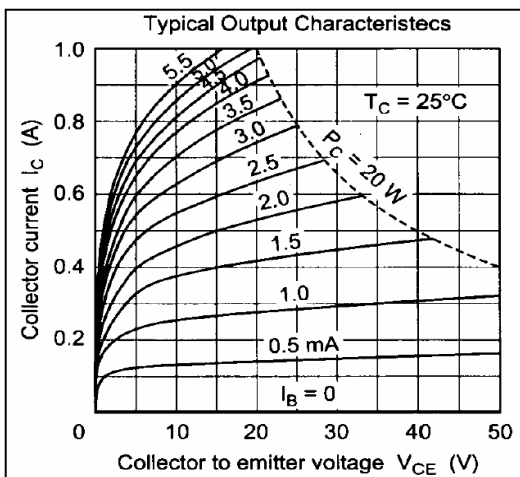
Classification Of hFE1

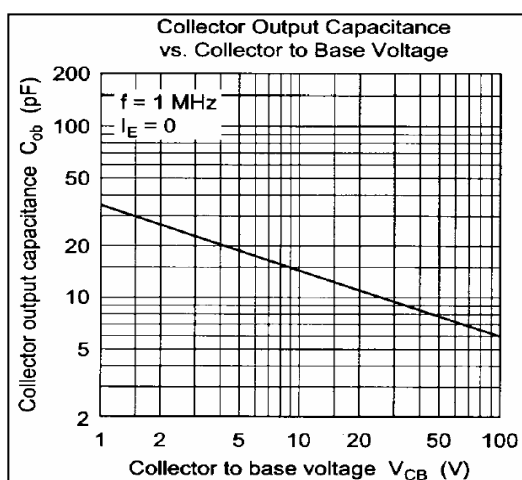
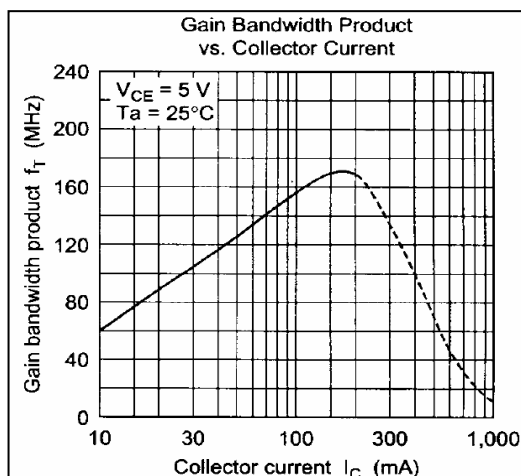
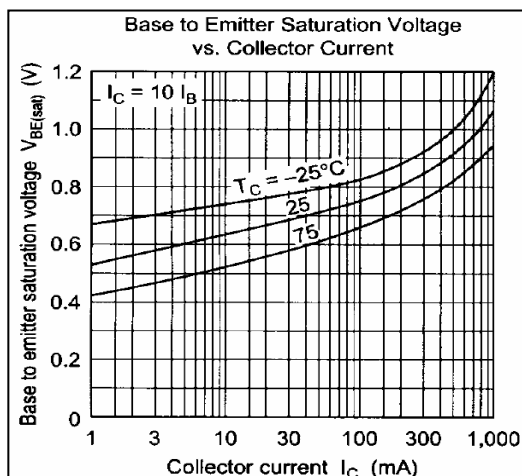
Rank	B	C
Range	60-120	100-200

Typical Parameters Performance



Characteristics Curve



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