GSB649A PNP EPITAXIAL PLANAR TRANSISTOR

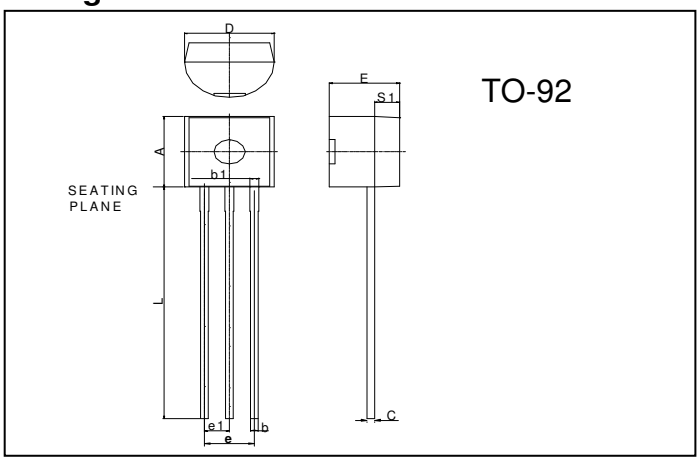
Description

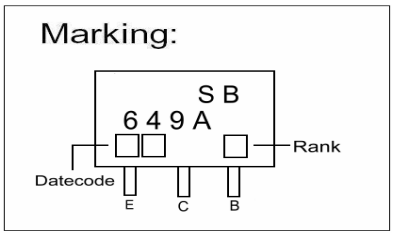
The GSB649A is designed for frequency power amplifier.

Features

*Low frequency power amplifier Complementary pair with GSD669A

Package Dimensions





REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S_1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b_1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

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

Parameter		Ratings	Unit
Collector to Base Voltage	V_{CBO}	-180	V
Collector to Emitter Voltage	V_{CEO}	-160	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collect Current(DC)	I_C	-1.5	A
Collect Current*(Pulse)	I_{CP}	-3	A
Junction Temperature	Tj	+150	℃
Storage Temperature Range	T_{STG}	-55 ~ +150	℃
Total Power Dissipation	P_D	1	W
Total Power Dissipation (TC=25℃)	P_D	20	W

Electrical Characteristics(Ta = 25℃,unless otherwise specified)

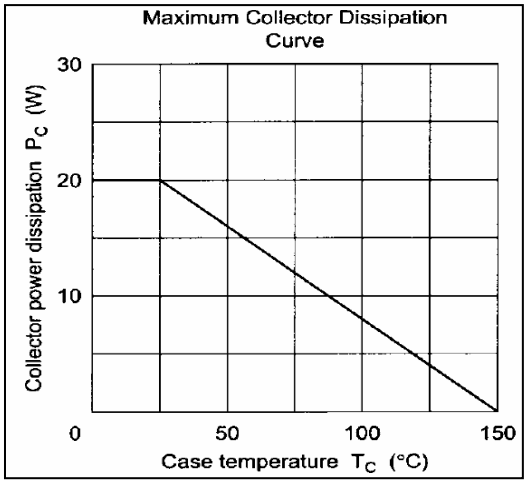
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
$V_{(BR)CBO}$	-180	-	-	V	I_C=-1mA ,I_E=0
$V_{(BR)CEO}$	-160	-	-	V	I_C=-10mA ,R_{BE}=∞
$V_{(BR)EBO}$	-5	-	-	V	I_E=-1mA ,I_C=0
ICBO	-	-	-10	uA	V_{CB}=-160V , I_E=0
*$V_{CE(sat)}$	-	-	-1	V	I_C=-600mA,I_B=-50mA
*$V_{BE(on)}$	-	-	-1.5	V	V_{CE}=-5V,I_C=-150mA
*hFE1	60	-	200		V_{CE}=-5V,I_C=-150mA
*hFE2	30	-	-		V_{CE}=-5V,I_C=-500mA
fT	-	140	-	MHz	V_{CE}=-5V,I_C=-150mA
Cob	-	27	-	pF	V_{CB}=-10V ,I_E=0,f=1MHz

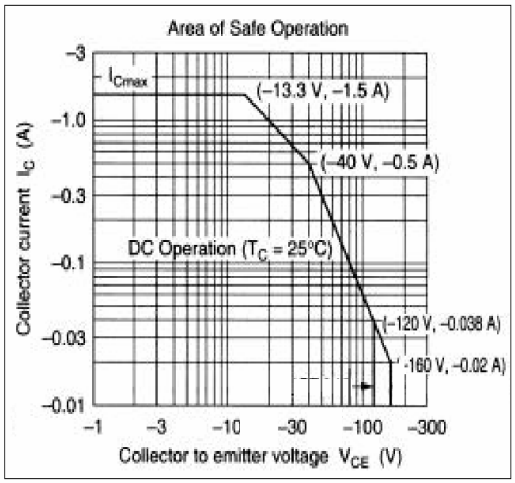
* Pulse Test: Pulse Width≦380us, Duty Cycle≦2%

Classification Of h_{FE1}

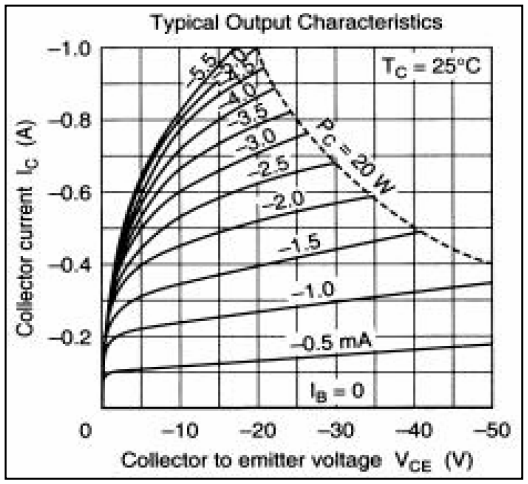
Rank	B	C
Range	60-120	100-200

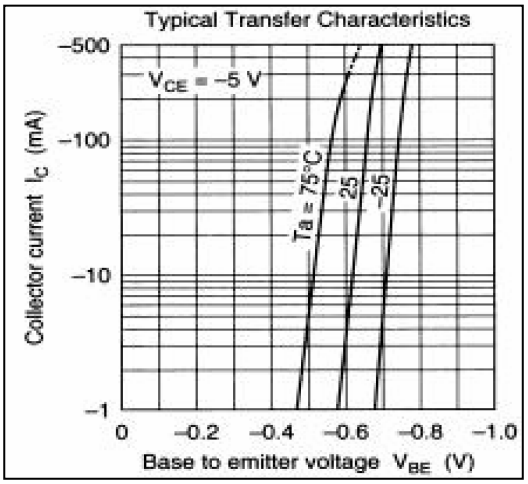
Typical Parameters Performance

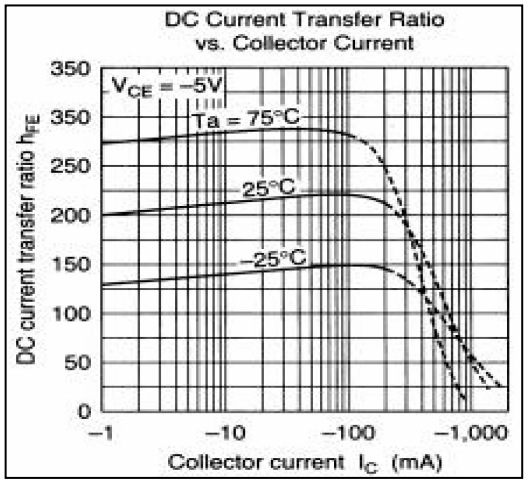


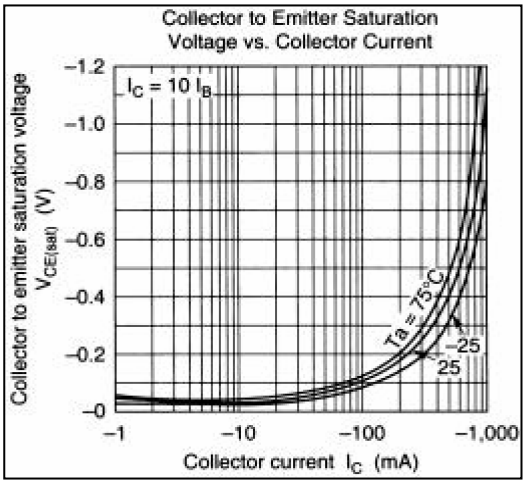


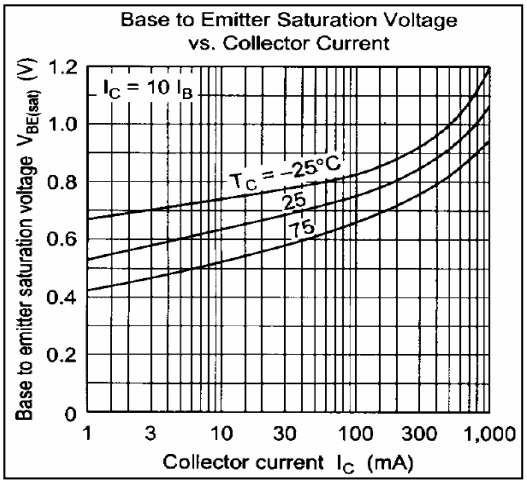
Characteristics Curve

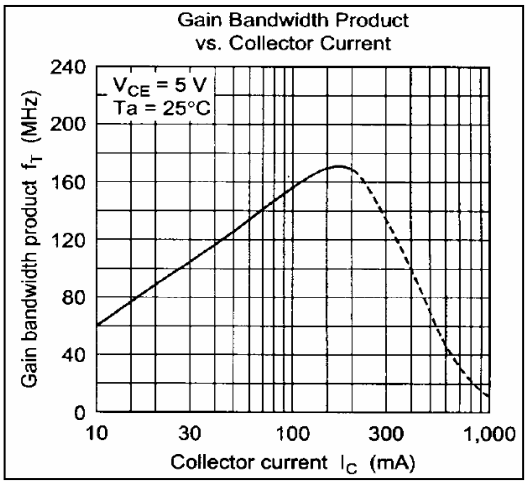


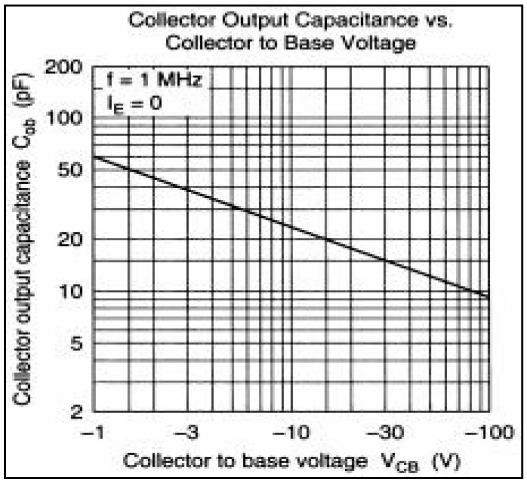












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