

## GSD882SS

## NPN EPITAXIAL PLANAR TRANSISTOR

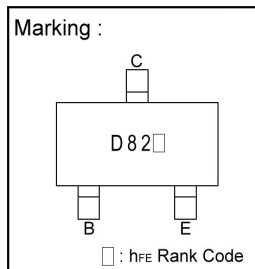
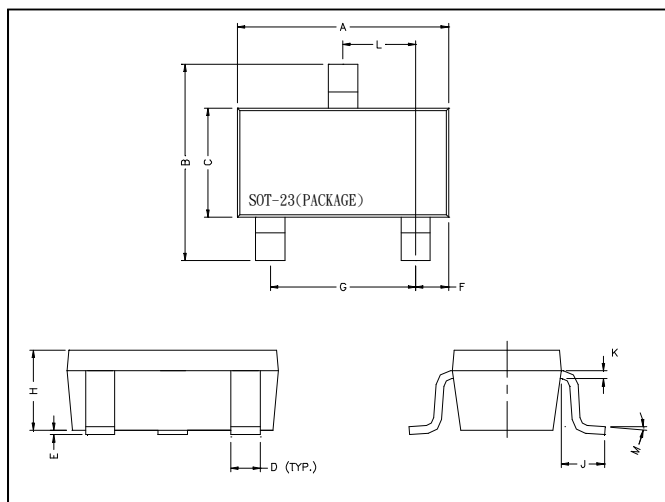
### Description

The GSD882SS is a medium power low voltage transistor, designed for audio power amplifier, DC-DC converter and voltage regulator.

### Features

- High current output up to 3A
- Low saturation voltage

### Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°

### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature Range	TSTG	-55 ~ +150	°C
Collector to Base Voltage	VCBO	40	V
Collector to Emitter Voltage	VCEO	30	V
Emitter to Base Voltage	VEBO	5	V
Collect Current(DC)	Ic	3	A
Total Power Dissipation	PD	750	mW

### Electrical Characteristics (Ta = 25°C)

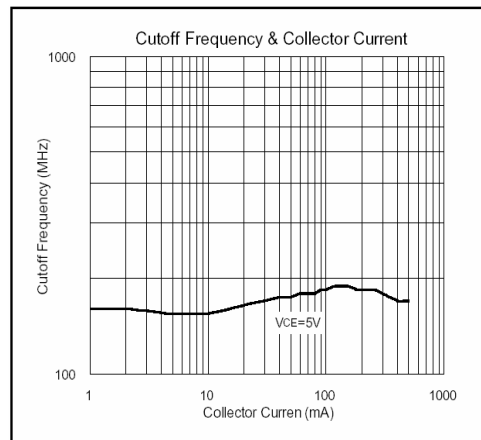
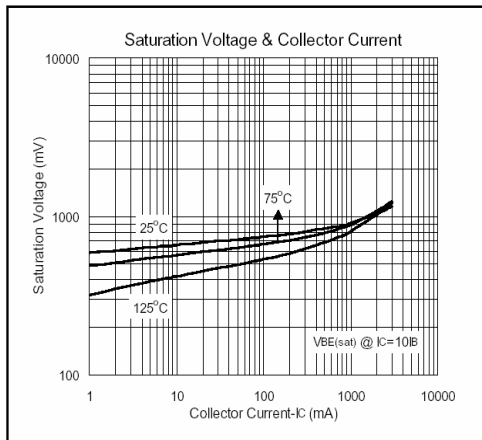
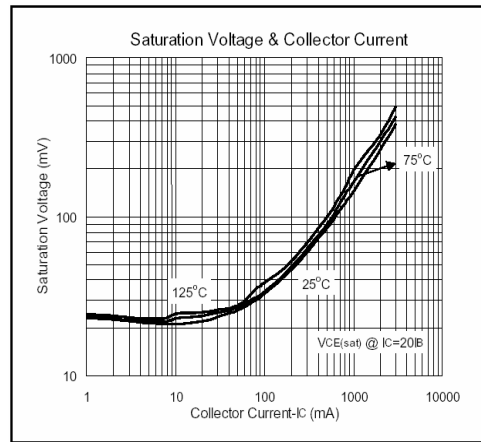
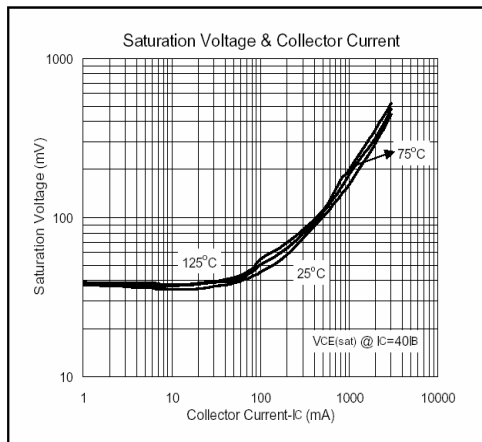
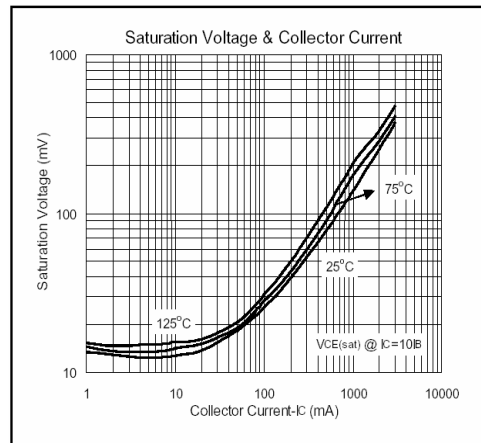
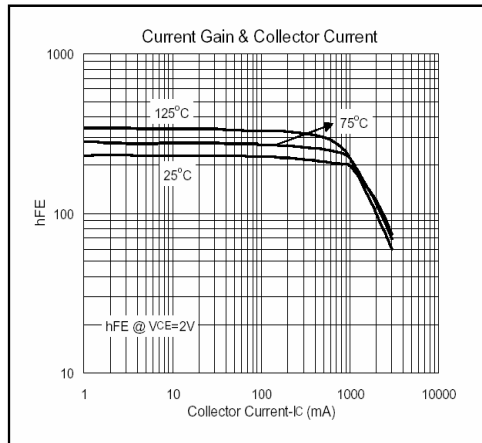
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	40	-	-	V	IC=100uA, IE=0
BVCEO	30	-	-	V	IC=1mA, IB=0
BVEBO	5	-	-	V	IE=10uA, IC=0
ICBO	-	-	1	uA	VCB=30V, IE=0
IEBO	-	-	1	uA	VEB=3V, IC=0
*VCE(sat)	-	-	0.5	V	IC=2A, IB=200mA
*VBE(sat)	-	-	2.0	V	IC=2A, IB=200mA
*hFE1	30	-	-		VCE=2V, IC=20mA
*hFE2	100	-	500		VCE=2V, IC=1A
fT	-	90	-	MHz	VCE=5V, IC=100mA, f=100MHz
Cob	-	45	-	pF	VCB=10V, f=1MHz

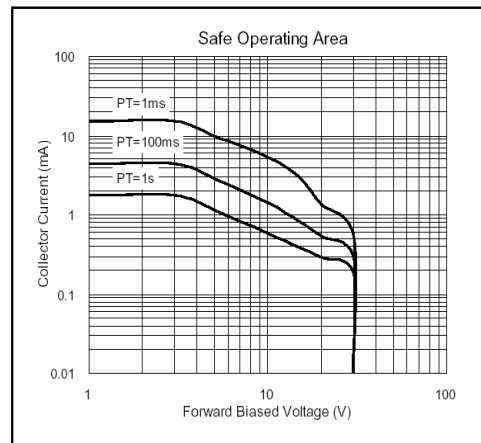
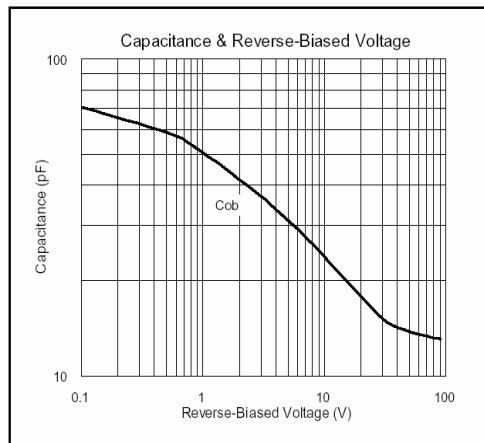
\* Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

### Classification Of hFE2

Rank	Q	P	E
Range	100 - 200	160 - 320	200 - 500

## Characteristics Curve





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