

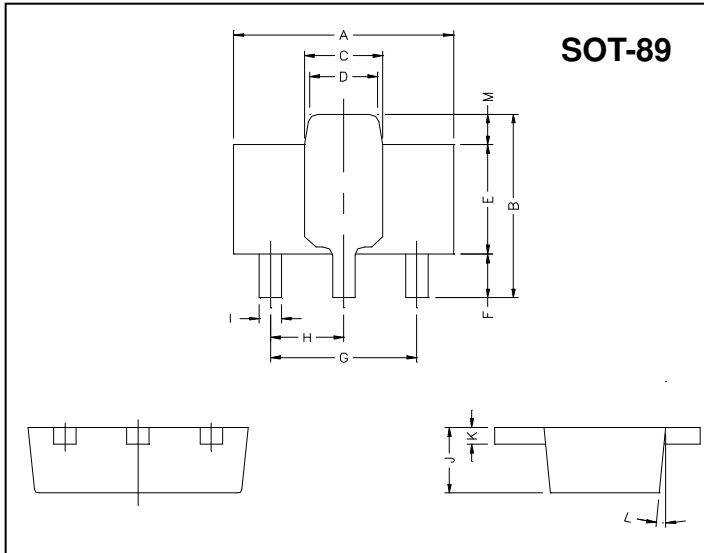
## GMSD1664

### NPN EPITAXIAL PLANAR TRANSISTOR

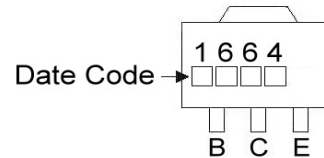
#### Description

The GMSD1664 is designed for general purpose amplifier applications.

#### Package Dimensions



#### Marking :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5°	TYP.
			M	0.70	REF.

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

Parameter	Symbol	Ratings	Unit
Junction Temperature	T <sub>j</sub>	+150	°C
Storage Temperature	T <sub>stg</sub>	-55 ~ +150	°C
Collector to Base Voltage	VCBO	40	V
Collector to Emitter Voltage	VCEO	32	V
Emitter to Base Voltage	VEBO	5	V
Collector Current at Ta=25°C	I <sub>C</sub>	1	A
Total Power Dissipation at Ta=25°C	PD	500	mW

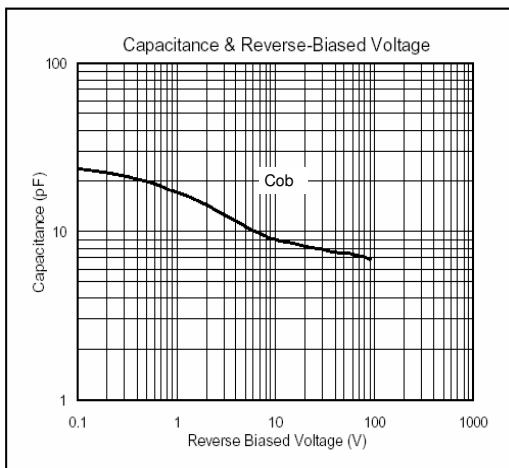
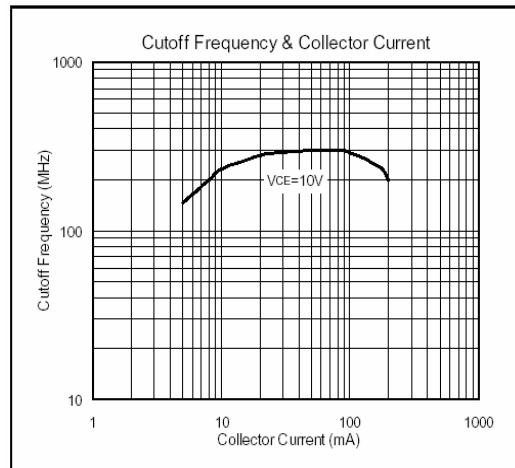
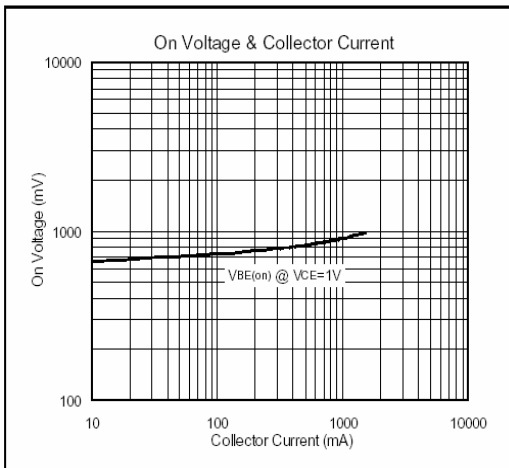
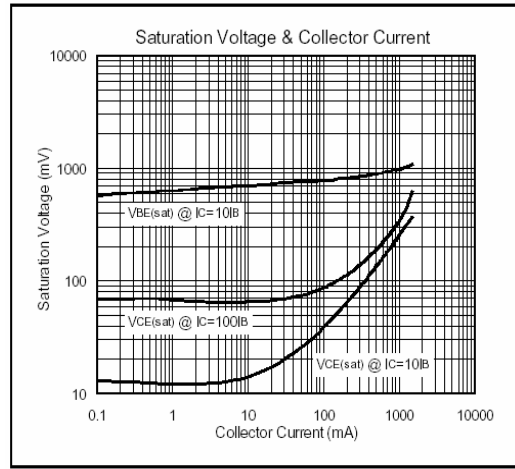
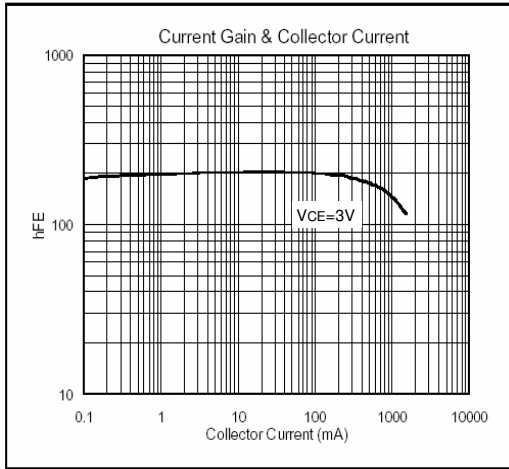
#### Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	40	-	-	V	I <sub>C</sub> =50uA
BVCEO	32	-	-	V	I <sub>C</sub> =1mA
BVEBO	5	-	-	V	I <sub>E</sub> =50uA
ICBO	-	-	500	nA	V <sub>CE</sub> =20V
IEBO	-	-	500	nA	V <sub>EB</sub> =4V
VCE(sat)	-	0.15	0.4	V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA
hFE	82	-	390		V <sub>CE</sub> =3V, I <sub>C</sub> =100mA
f <sub>T</sub>	-	150	-	MHz	V <sub>CE</sub> =5V, I <sub>E</sub> =-50mA, f=100MHz
Cob	-	9	-	pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0mA, f=1MHz

#### Classification Of hFE

Rank	P	Q	R
hFE	82-180	120-270	180-390

## Characteristics Curve



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