

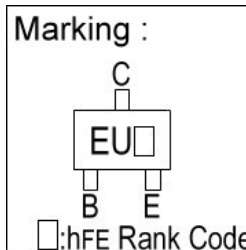
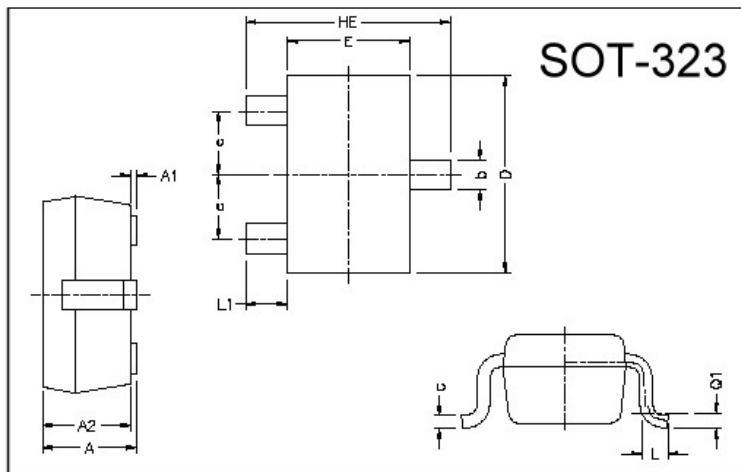
## GSD2656

### NPN EPITAXIAL TRANSISTOR

#### Description

The GSD2656 is designed for general purpose amplifier applications.

#### Package Dimensions



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	30	V
Collector to Emitter Voltage	Vceo	30	V
Emitter to Base Voltage	Vebo	6	V
Collector Current	Ic	1	A
Total Power Dissipation	PD	225	mW

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

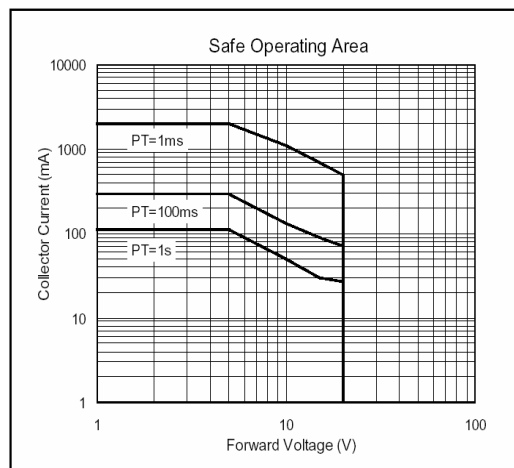
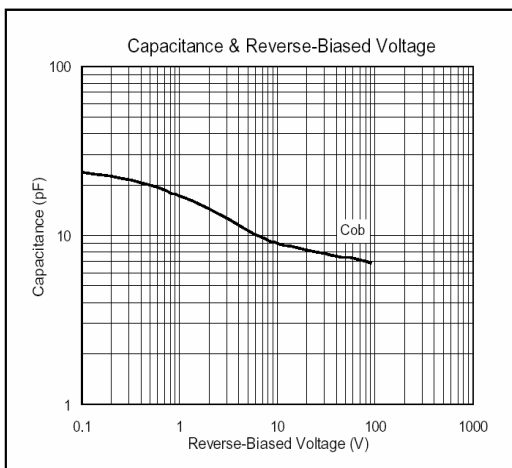
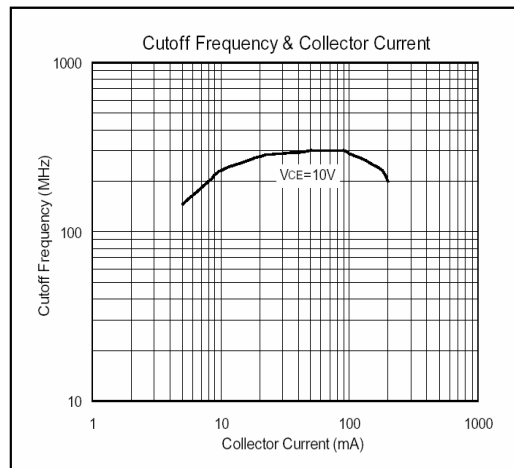
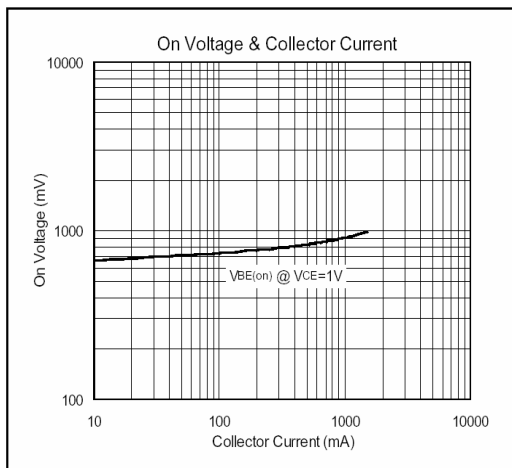
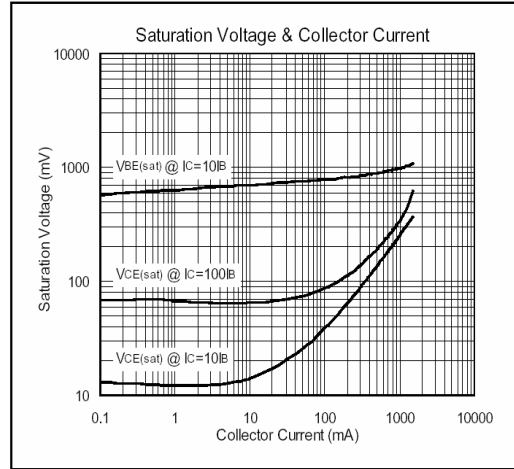
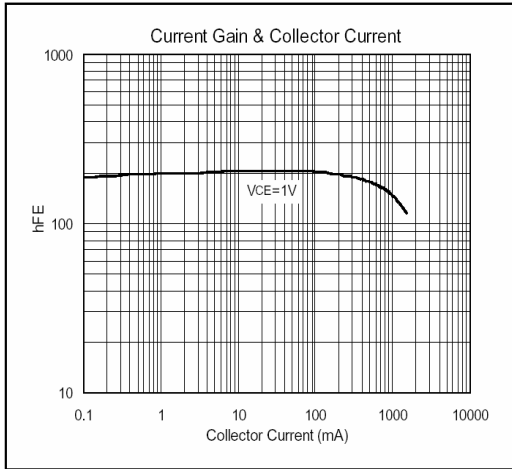
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVcbo	30	-	-	V	Ic=10uA, IE=0
BVceo	30	-	-	V	Ic=1mA, Ib=0
BVebo	6	-	-	V	IE=10uA, Ic=0
Icbo	-	-	100	nA	Vcb=30V, IE=0
Iebo	-	-	100	nA	VEB=6V, Ic=0
VCE(sat)	-	-	350	mV	Ic=500mA, Ib=25mA
*hFE	120	-	500		VCE=2V, Ic=100mA
*fT	-	400	-	MHz	VCE=2V, IE=-100mA, f=100MHz
Cob	-	5	-	pF	Vcb=10V, f=1MHz

\*Pulsed Test

#### Classification Of hFE

Rank	EUC	EUD	EUE
Range	120 ~ 200	160 ~ 300	250 ~ 500

## Characteristics Curve



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