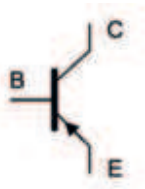
GOOD-ARK
SEMICONDUCTOR

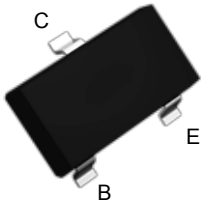
GSBC807W Series
PNP Transistors

Feature

- Epoxy meets UL 94V-0 flammability rating
- Small outline surface mount package
- Low current leakage
- For high-speed switching applications



Schematic Diagram



SOT-323

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

Parameter	Symbol	Max.	Unit
		.0	
Range			

Electrical Characteristics (T_A=25°C unless otherwise specified)

		B			
				0.1	u
				0.1	u
				0	
				0	
					z

$h_{FE(1)}$ Classifications

Rank	GSBC807-16W	GSBC807-25W	GSBC807-40W
Range	-	-	-
Marking			

Typical Characteristic Curves

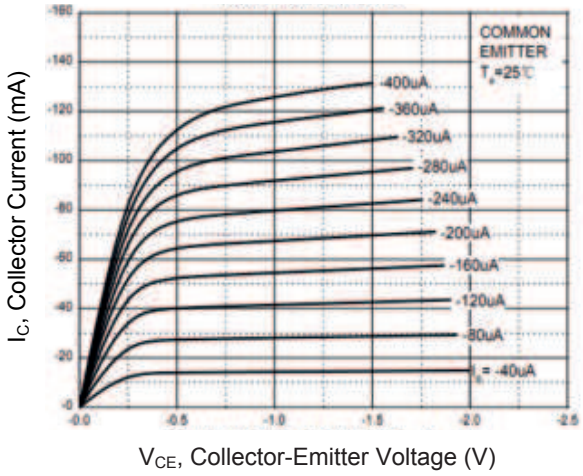


Figure 1. Static Characteristics

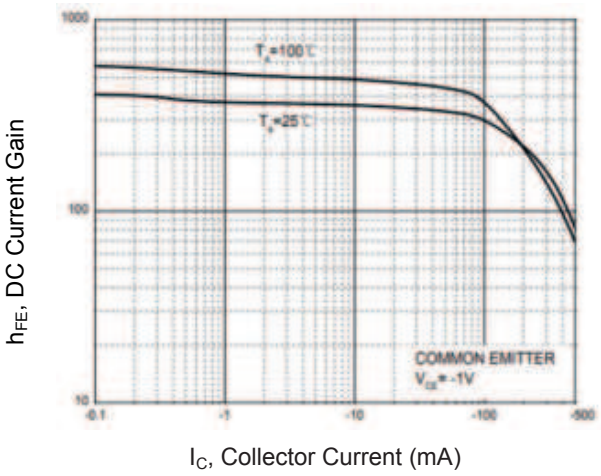


Figure 2. DC Current Gain

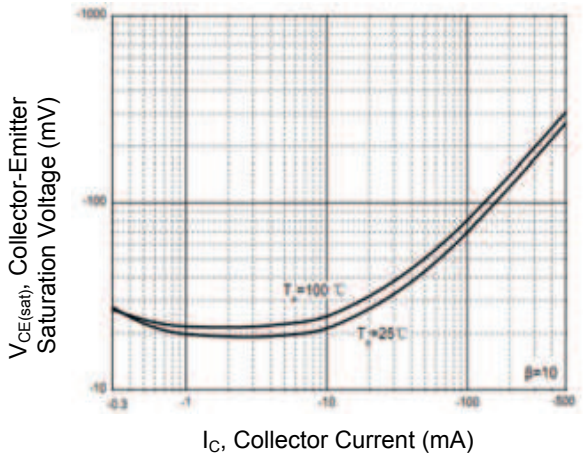


Figure 3. Collector-Emitter Saturation Voltage vs. Collector Current

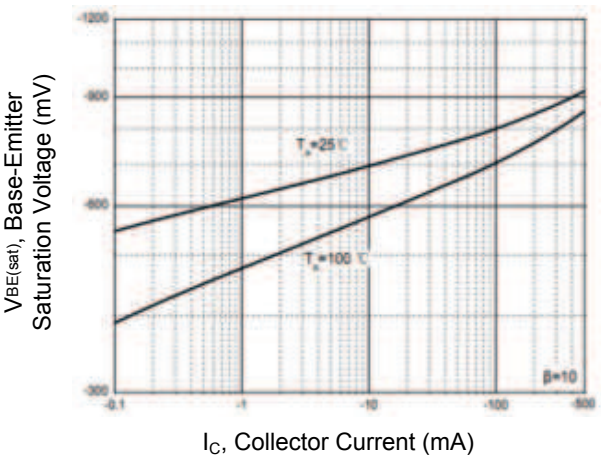


Figure 4. Base-Emitter Saturation Voltage vs. Collector Current

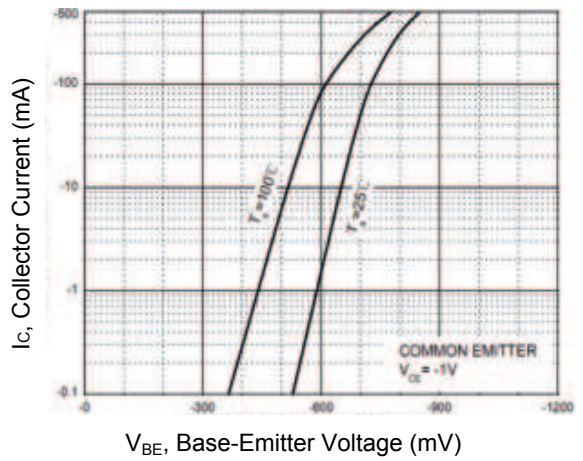


Figure 5. Collector Current vs. Base-Emitter Voltage

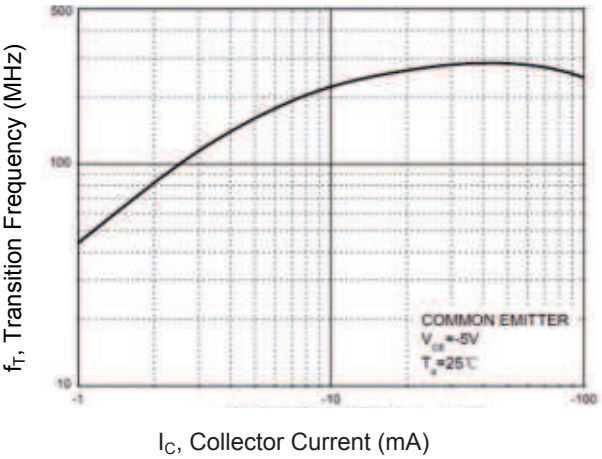


Figure 6. Transition Frequency vs. Collector Current

Typical Characteristic Curves

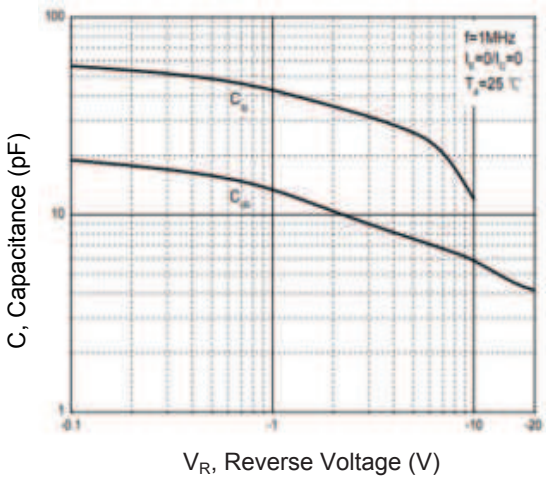


Figure 7. Capacitance Characteristics

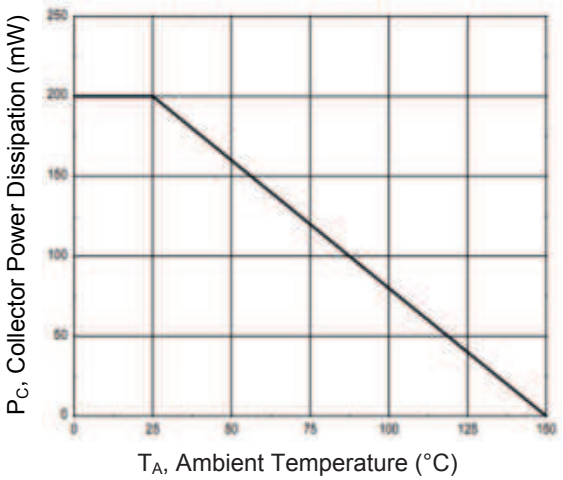
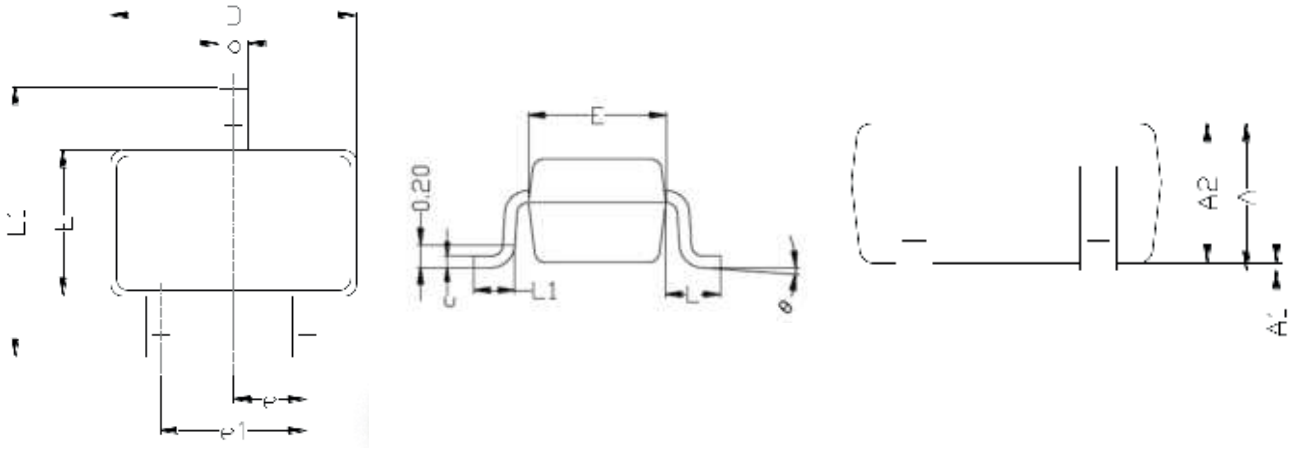


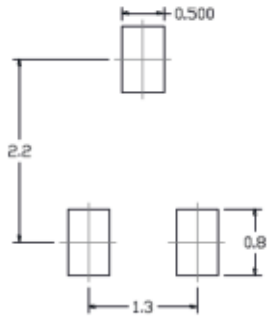
Figure 8. Power Derating

Package Outline Dimensions (SOT-323)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.90	1.00	0.035	0.039
A1	0.00	0.10	0.000	0.004
A2	0.90	1.00	0.035	0.039
b	0.20	0.40	0.008	0.016
c	0.08	0.15	0.003	0.006
D	2.00	2.20	0.079	0.087
E	1.15	1.35	0.045	0.053
E1	2.15	2.45	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.20	1.40	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.26	0.46	0.010	0.018
θ	0°	8°	0°	8°

Recommended Pad Layout



Note:

1. Controlling dimension: in millimeters
2. General tolerance: ±0.05mm
3. The pad layout is for reference purposes only

Order Information

Device	Package	Carrier	Quantity
GSBC807W Series	SOT-323	Tape & Reel	3,000 Pcs / Reel