

## GPN2907A

### PNP EPITAXIAL PLANAR TRANSISTOR

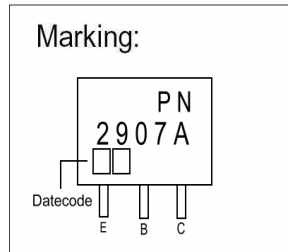
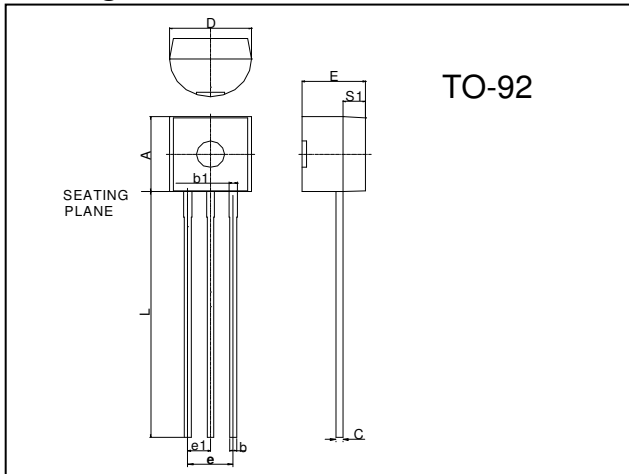
#### Description

The GPN2907A is designed for general purpose amplifier and high speed, medium-power switching applications

#### Features

- \*Low Collect Saturation voltage.
- \*High Speed Switching.
- \*For Complementary Use with NPN Type GPN2222A.

#### Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

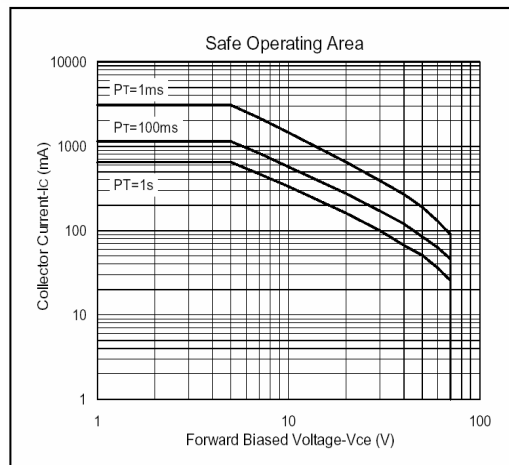
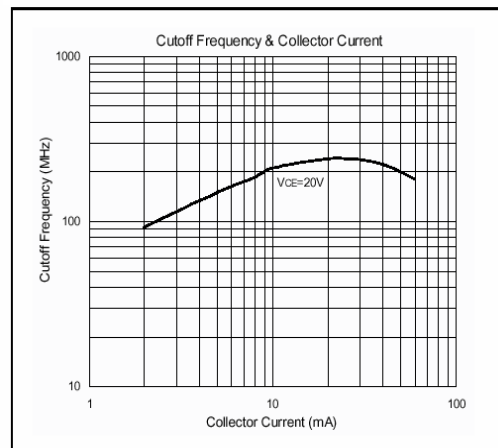
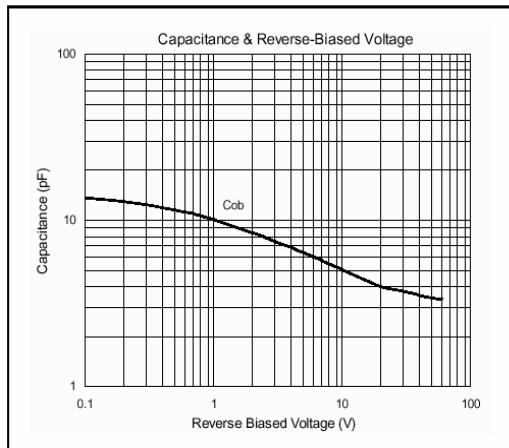
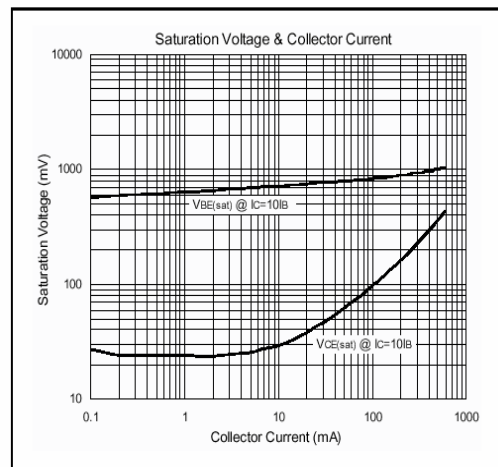
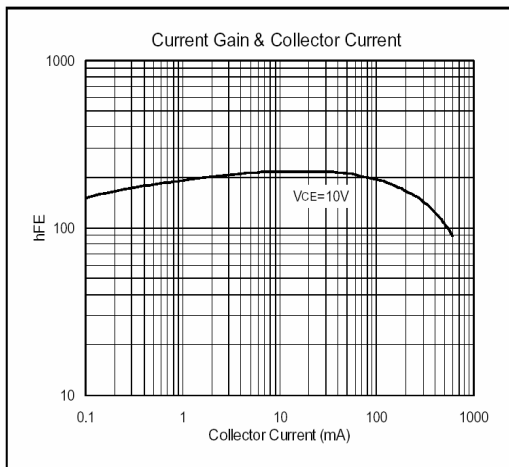
#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55 ~ +150	°C
Collector to Base Voltage	Vcbo	-60	V
Collector to Emitter Voltage	Vceo	-60	V
Emitter to Base Voltage	Vebo	-5	V
Collector Current	Ic	-600	mA
Total Power Dissipation	PD	625	mW

#### Electrical Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-60	-	-	V	IC=-10uA, IE=0
BVCEO	-60	-	-	V	IC=-10mA, IB=0
BVEBO	-5	-	-	V	IC=-10uA, IC=0
ICBO	-	-	-10	nA	VCB=-50V, IC=0
ICEX	-	-	-50	nA	VCE=30V, VBE=-0.5
VCE(sat)1	-	-0.2	-0.4	V	IC=-150mA, IB=-15mA
VCE(sat)2	-	-0.5	-1.6	V	IC=-500mA, IB=-50mA
VBE(sat)1	-	-	-1.3	V	IC=-150mA, IB=-15mA
VBE(sat)2	-	-	-2.6	V	IC=-500mA, IB=-50mA
hFE1	75	-	-		VCE=-10V, IC=-100uA
hFE2	100	-	-		VCE=-10V, IC=-1mA
hFE3	100	-	-		VCE=-10V, IC=-10mA
hFE4	100	180	300		VCE=-10V, IC=-150mA
hFE5	50	-	-		VCE=-10V, IC=-500mA
fT	200	-	-	MHZ	VCE=-20V, IC=-50mA, f=100MHZ
Cob	-	-	8	pF	VCB=-10V, F=1MHZ

## Characteristics Curve



**Important Notice:**

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of GTM.
- GTM reserves the right to make changes to its products without notice.
- GTM semiconductor products are not warranted to be suitable for use in life-support Applications, or systems.
- GTM assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

**Head Office And Factory:**

- **Taiwan:** No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
- TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
- **China:** (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
- TEL : 86-21-5895-7671 ~ 4 FAX : 86-21-38950165