

GI122

NPN EPITAXIAL PLANAR TRANSISTOR

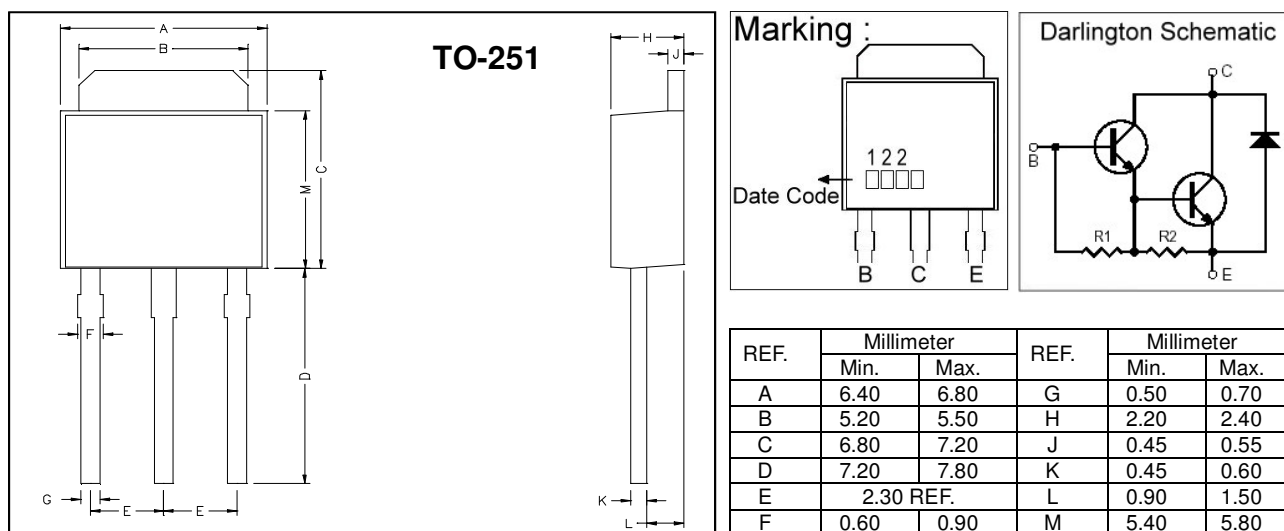
Description

The GI122 is designed for use in general purposes and low speed switching applications.

Features

- High DC current gain
- Built-in a damper diode at E-C

Package Dimensions



Absolute Maximum Ratings at Ta = 25°C

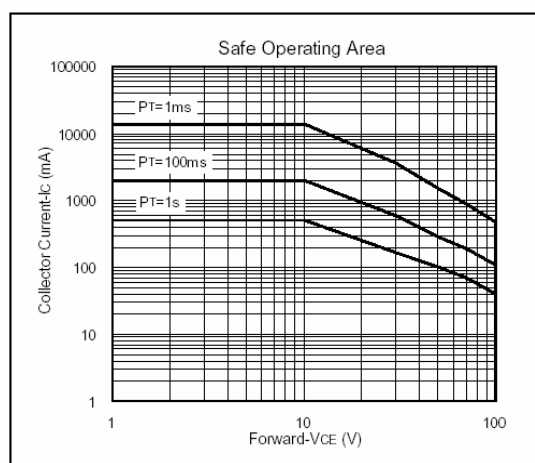
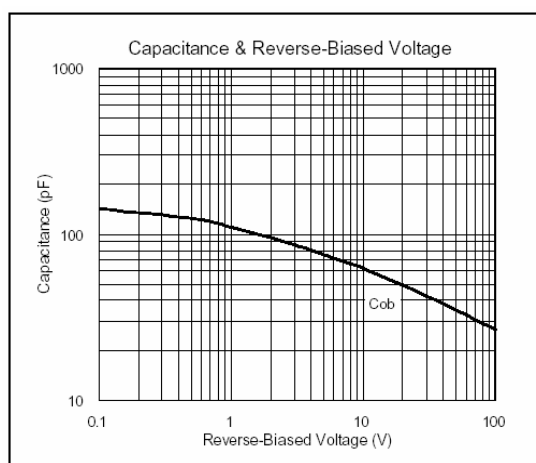
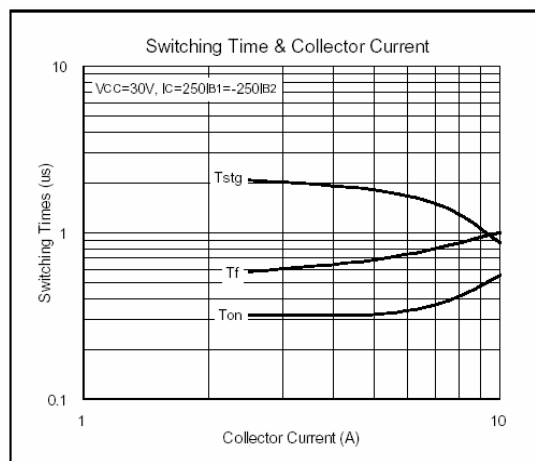
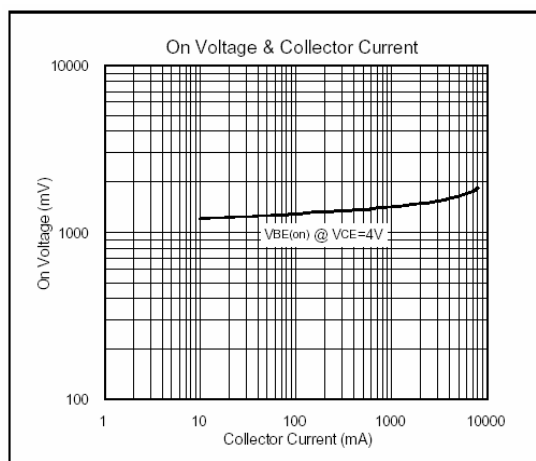
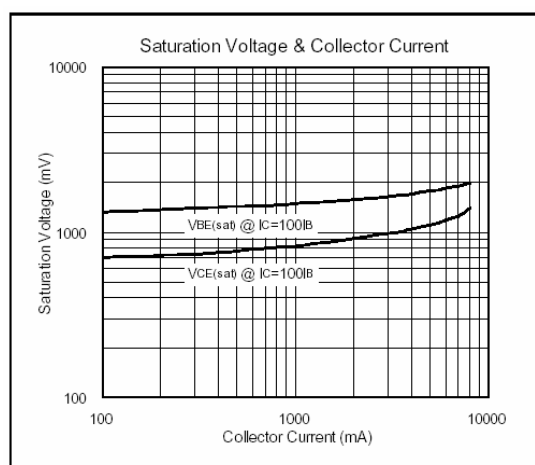
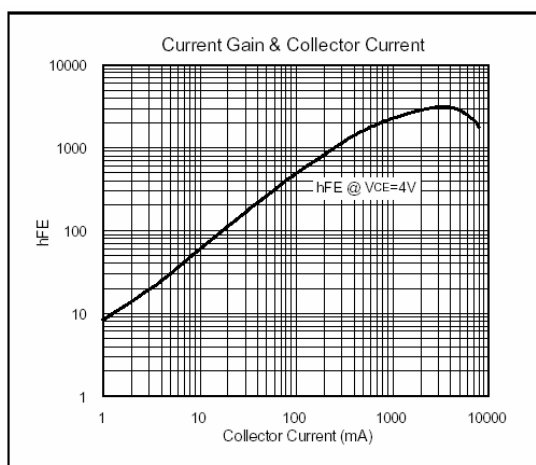
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55 ~ +150	°C
Collector to Base Voltage	BVCBO	100	V
Collector to Emitter Voltage	BVCEO	100	V
Emitter to Base Voltage	BVEBO	5	V
Collector Current	IC	5	A
Total Power Dissipation(Tc=25°C)	PD	20	W

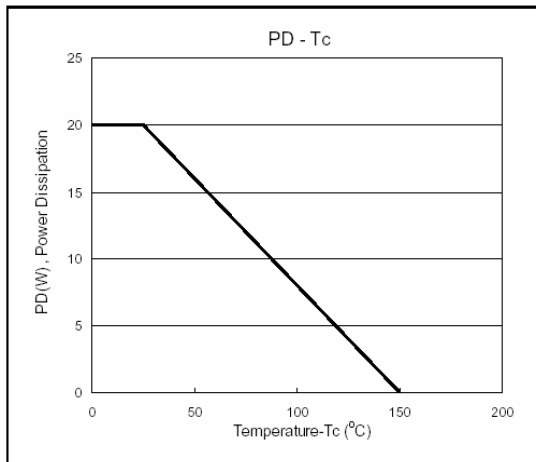
Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	100	-	-	V	Ic=1mA, IE=0
BVCEO	100	-	-	V	Ic=30mA, IB=0
BVEBO	5	-	-	V	IE=1mA, IC=0
ICBO	-	-	10	μA	VCB=100V, IE=0
ICEO	-	-	10	μA	VCE=50V, IB=0
IEBO	-	-	2	mA	VEB=5V, IC=0
*VCE(sat)1	-	-	2	V	Ic=3A, IB=16mA
*VCE(sat)2	-	-	4	V	Ic=5A, IB=20mA
*VBE(sat)	-	-	4	V	Ic=5A, IB=50mA
*VBE(on)	-	-	2.5	V	VCE=3V, Ic=3A
*hFE1	1	-	-	K	VCE=3V, Ic=500mA
*hFE2	1	-	-	K	VCE=3V, Ic=3A
Cob	-	-	200	pF	VCB=10V, f=1MHz

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

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