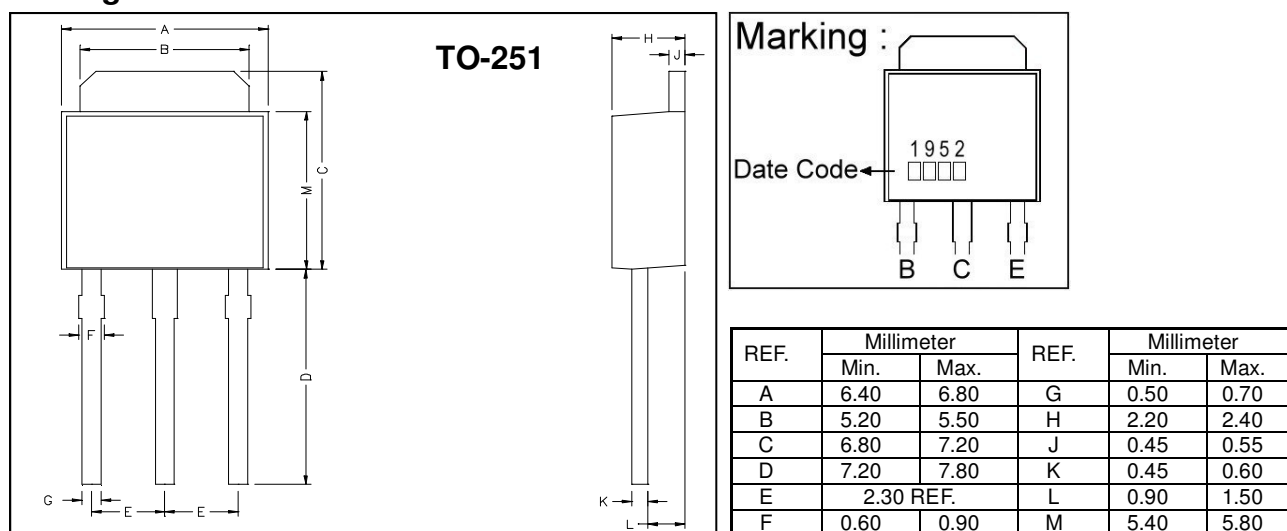


GI1952**PNP HIGH SPEED SWITCHING TRANSISTOR****Description**

The GI1952 is designed for high speed switching applications.

Features

- Low saturation voltage, typically $V_{CE(sat)} = -0.2V$ at $I_C/I_B = -3A/-0.15A$
- High speed switching, typically $t_f = 0.15\mu s$ at $I_C = -3A$
- Wide SOA
- Complements to GI5103

Package Dimensions**Absolute Maximum Ratings ($T_A = 25^\circ C$)**

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-100	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current (DC)	I_C	-5	A
Collector Current (Pulse)	I_C	-10	A
Total Device Dissipation ($T_A = 25^\circ C$)	P_D	1	W
Total Device Dissipation ($T_C = 25^\circ C$)	P_D	10	W
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{stg}	-55 ~ +150	$^\circ C$

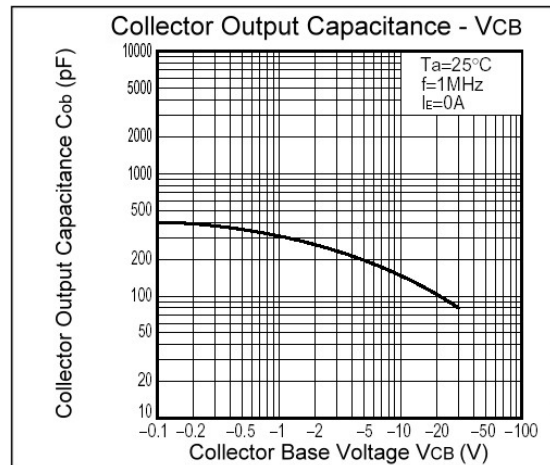
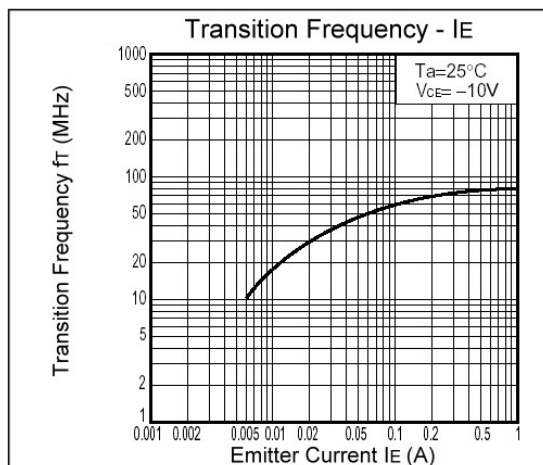
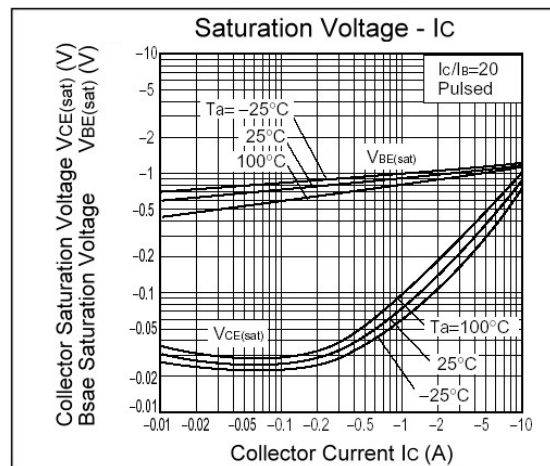
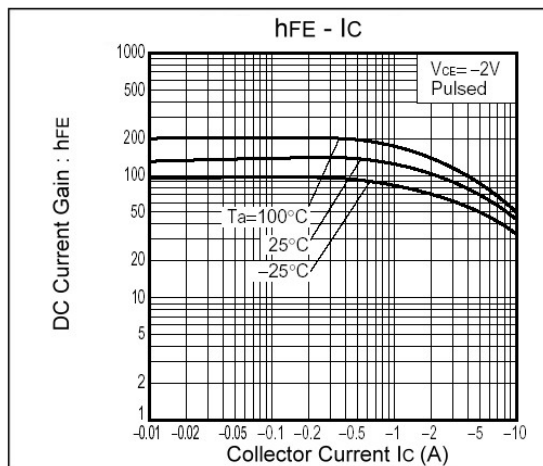
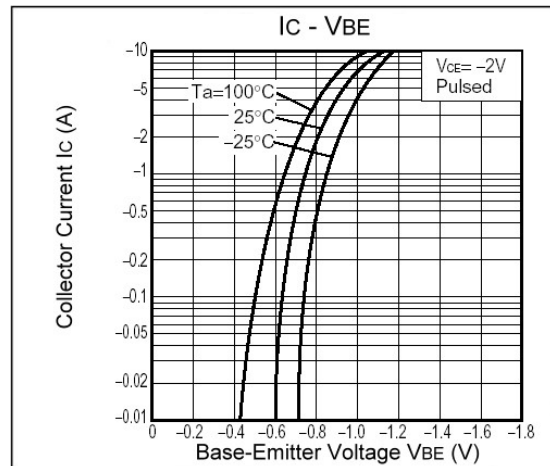
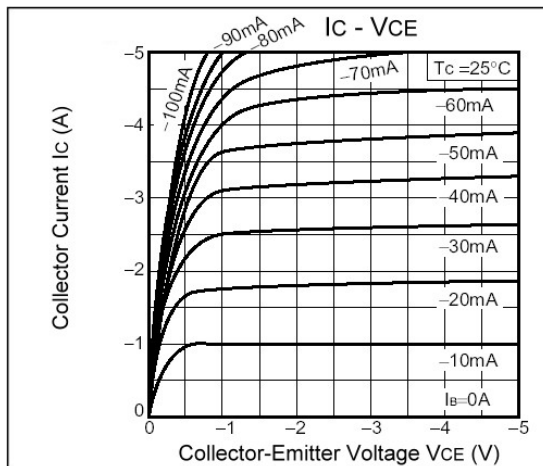
Electrical Characteristics ($T_A = 25^\circ C$ unless otherwise noted)

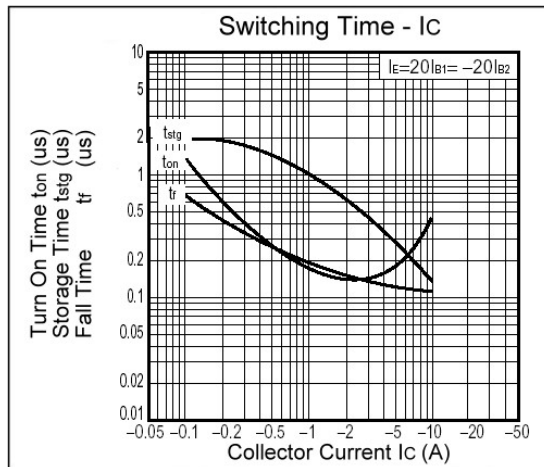
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV_{CBO}	-100	-	-	V	$I_C = -50\mu A, I_E = 0$
BV_{CEO}	-60	-	-	V	$I_C = -1mA, I_B = 0$
BV_{EBO}	-5	-	-	V	$I_E = -50\mu A, I_C = 0$
I_{CBO}	-	-	-10	μA	$V_{CB} = -100V, I_E = 0$
I_{EBO}	-	-	-10	μA	$V_{EB} = -5V, I_C = 0$
* $V_{CE(sat)1}$	-	-	-0.3	V	$I_C = -3A, I_B = -0.15A$
* $V_{CE(sat)2}$	-	-	-0.5	V	$I_C = -4A, I_B = -0.2A$
* $V_{BE(sat)1}$	-	-	-1.2	V	$I_C = -3A, I_B = -0.15A$
* $V_{BE(sat)2}$	-	-	-1.5	V	$I_C = -4A, I_B = -0.2A$
* h_{FE1}	120	-	270		$V_{CE} = -2V, I_C = -1A$
* h_{FE2}	40	-	-		$V_{CE} = -2V, I_C = -3A$
f_T	-	80	-	MHz	$V_{CE} = -10V, I_E = 0.5A, f = 30MHz$
C_{ob}	-	130	-	pF	$V_{CB} = -10V, I_E = 0, f = 1MHz$

t_{on} (Turn-on Time)	-	-	0.3	uS	$I_C = -3A$, $R_L = 10\Omega$ $I_{B1} = -I_{B2} = -0.15A$ $V_{CC} \approx -30V$
t_{stg} (Storage Time)	-	-	1.5		
t_f (Fall Time)	-	-	0.3		

*Measure using pulse current

Characteristics Curve



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