

GI42C

PNP EPITAXIAL PLANAR TRANSISTOR

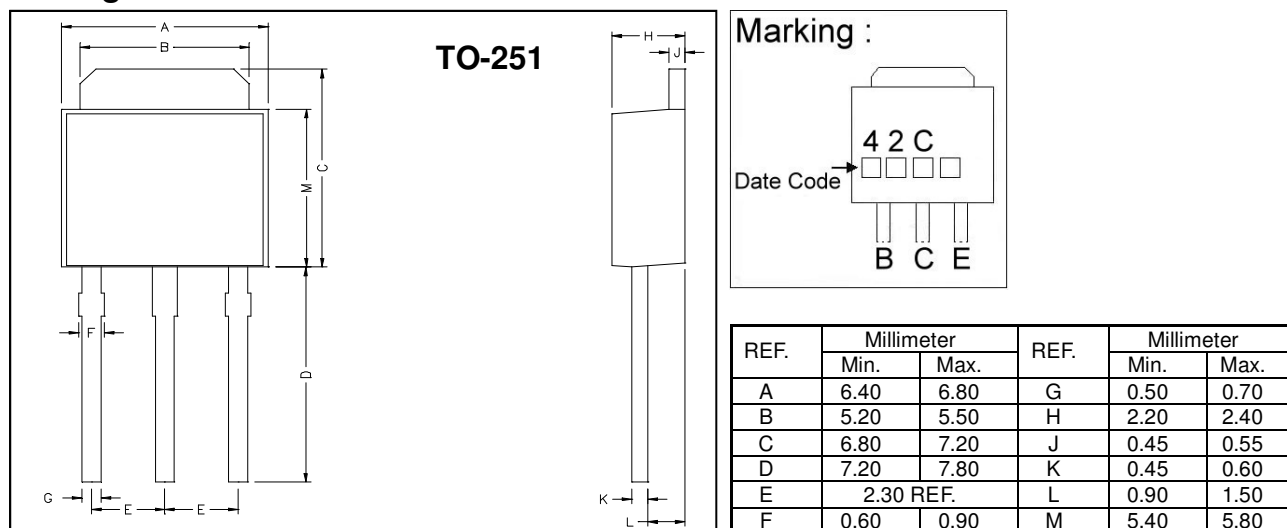
Description

The GI42C is designed for use in general purpose amplifier and switching applications.

Features

*Complementary to GI41C

Package Dimensions



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

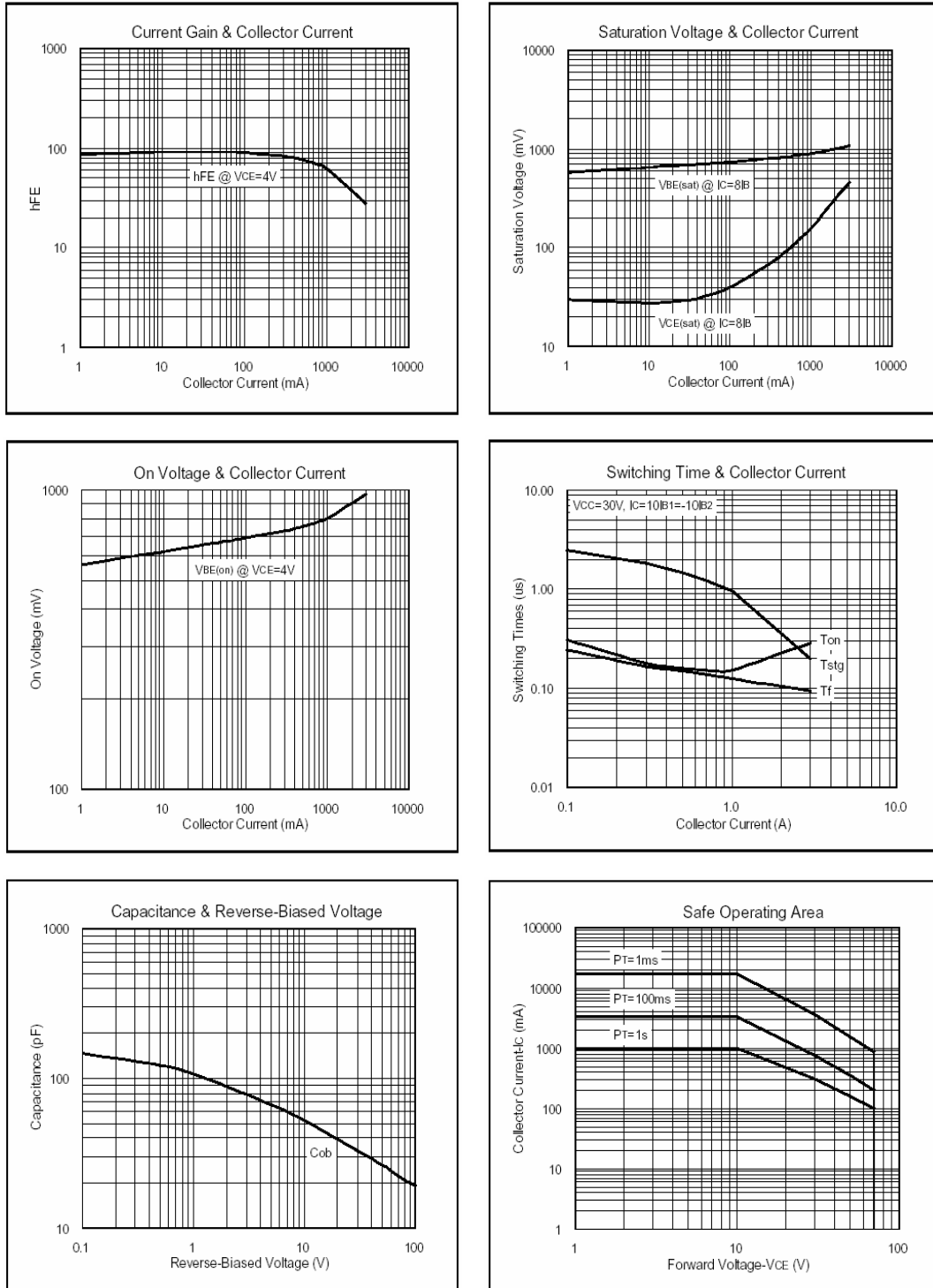
Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V _{CBO}	-100	V
Collector to Emitter Voltage	V _{CEO}	-100	V
Emitter to Base Voltage	V _{EBO}	-5	V
Collector Current (DC)	I _c	-6	A
Collector Current (Pulse)	I _c	-10	A
Junction Temperature	T _j	+150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C
Total Power Dissipation	PD	2	W
	PD(T _C =25°C)	20	W

Electrical Characteristics (Rating at Ta=25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V _{CBO}	-100	-	-	V	I _C =-1mA, I _E =0
*V _{CEO}	-100	-	-	V	I _C =-30mA, I _B =0
V _{EBO}	-5	-	-	V	I _E =-100uA, I _C =0
I _{CES}	-	-	-10	uA	V _{CE} =-100V, V _{EB} =0V
I _{CEO}	-	-	-50	uA	V _{CE} =-60V, I _B =0
I _{EBO}	-	-	-500	uA	V _{EB} =-5V, I _C =0
*V _{CE(sat)}	-	-	-1.5	V	I _C =-6A, I _B =-600mA
*V _{BE(on)}	-	-	-2.0	V	V _{CE} =-4V, I _C =-6A
*h _{FE1}	30	-	-		V _{CE} =-4V, I _C =-300mA
*h _{FE2}	15	-	75		V _{CE} =-4V, I _C =-3A
f _T	3	-	-	MHz	V _{CE} =-10V, I _C =-500mA, f=1MHz

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

Characteristics Curve



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