

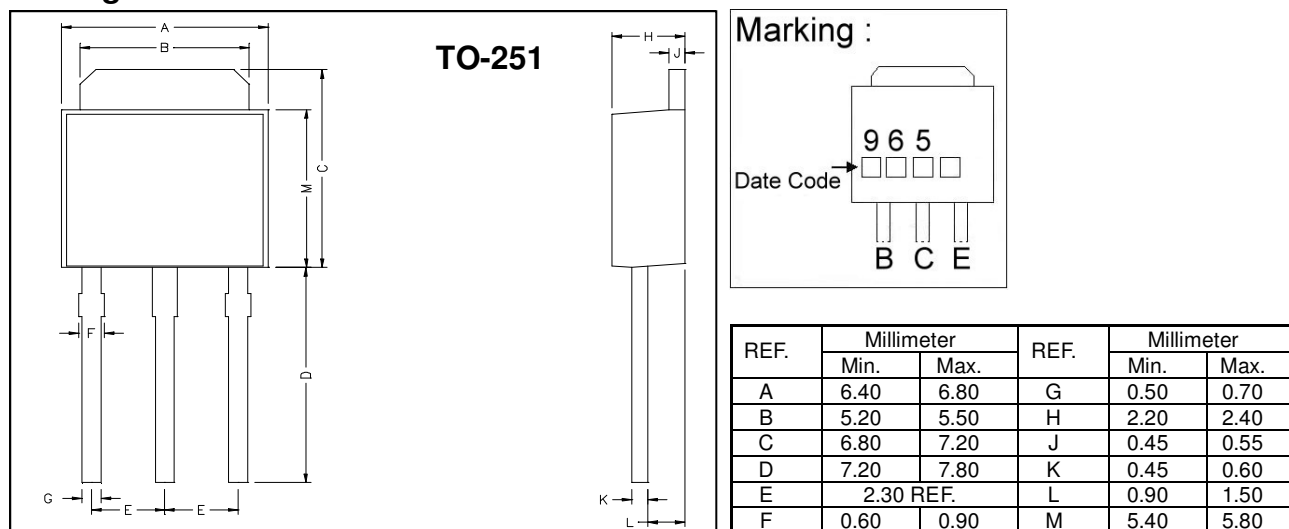
GI965

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The GI965 is designed for use as AF output amplifier and flash unit.

Package Dimensions



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

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V _{CBO}	40	V
Collector to Emitter Voltage	V _{CEO}	20	V
Emitter to Base Voltage	V _{EBO}	7	V
Collector Current (Continuous)	I _C	5	A
Collector Current (Peak PT=10mS)	I _{CP}	8	A
Junction Temperature	T _j	+150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C
Total Power Dissipation	P _D	2	W

Electrical Characteristics (Rating at Ta=25°C)

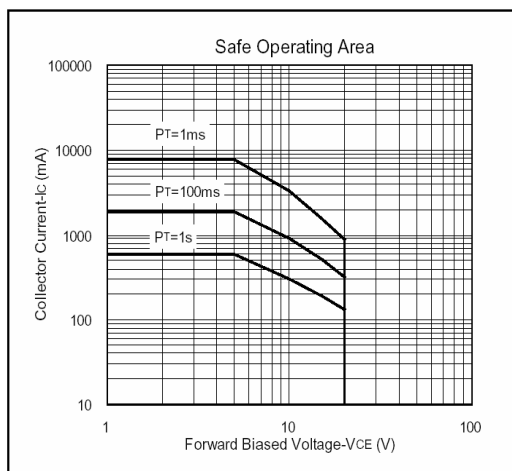
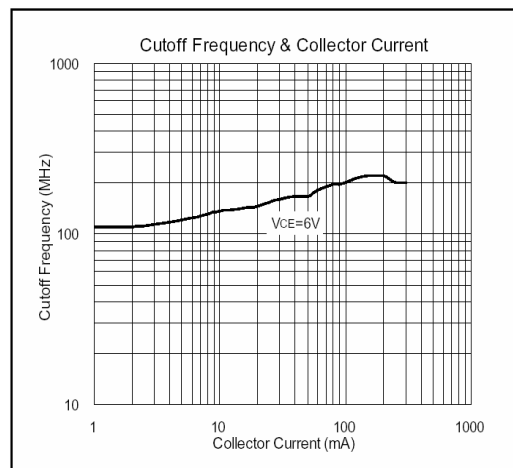
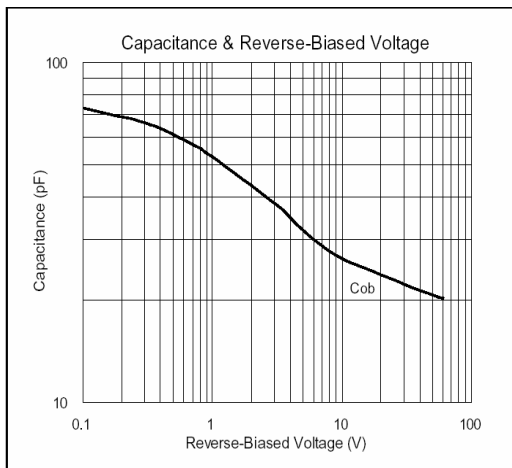
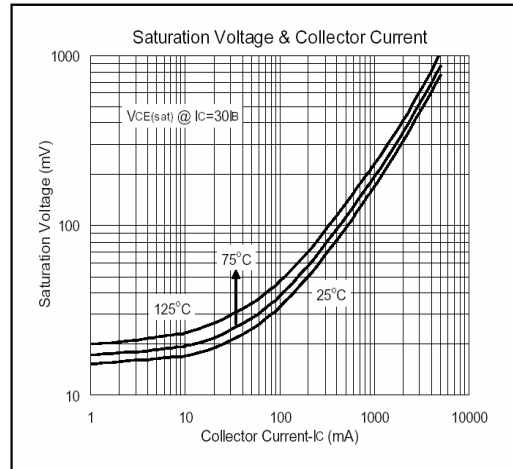
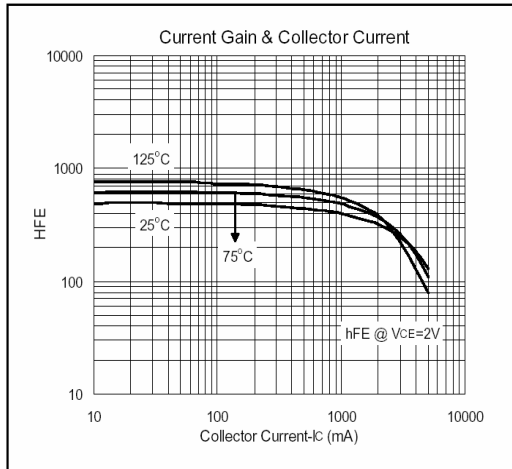
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
B _V C _{BO}	40	-	-	V	I _C =100uA
B _V C _{EO}	20	-	-	V	I _C =1mA
B _V E _{BO}	7	-	-	V	I _E =10uA
I _C B _O	-	-	100	nA	V _{CB} =60V
I _E B _O	-	-	100	nA	V _{EB} =7V
*V _{CE} (sat)	-	350	1000	mV	I _C =3A, I _B =100mA
*h _{FE} 1	230	-	800		V _{CE} =2V, I _C =500mA
*h _{FE} 2	150	-	-		V _{CE} =2V, I _C =2A
f _T	-	150	-	MHz	V _{CE} =6V, I _E =50mA
C _{ob}	-	-	50	pF	V _{CB} =20V, f=1MHz

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

Classification Of h_{FE}1

Rank	Q	R	S
Range	230 ~ 380	340 ~ 600	560 ~ 800

Characteristics Curve



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