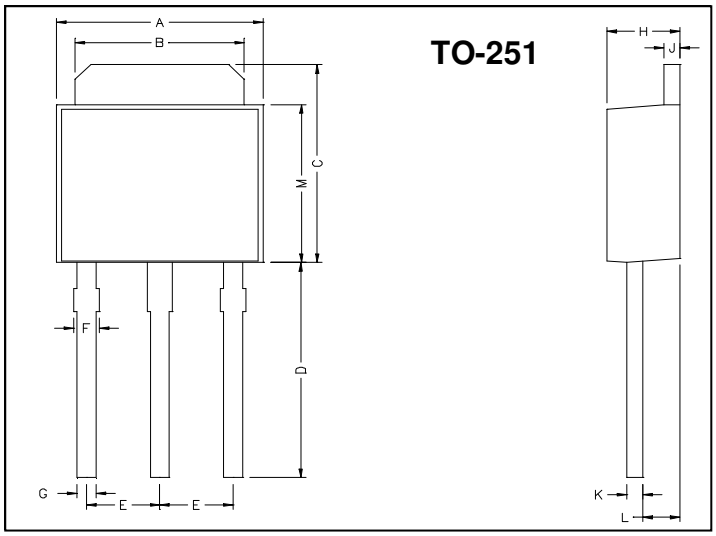
GI965

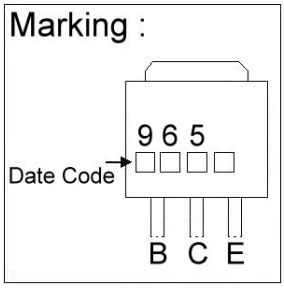
NPN EPITAXIAL PLANAR TRANSISTOR

Description

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

Package Dimensions





REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.40	6.80	G	0.50	0.70
B	5.20	5.50	H	2.20	2.40
C	6.80	7.20	J	0.45	0.55
D	7.20	7.80	K	0.45	0.60
E	2.30 REF.		L	0.90	1.50
F	0.60	0.90	M	5.40	5.80

Absolute Maximum Ratings (Ta = 25℃,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	Tj	+150	℃
Storage Temperature	T_{STG}	-55 ~ +150	℃
Total Power Dissipation	P_D	2	W

Electrical Characteristics (Rating at Ta=25℃)

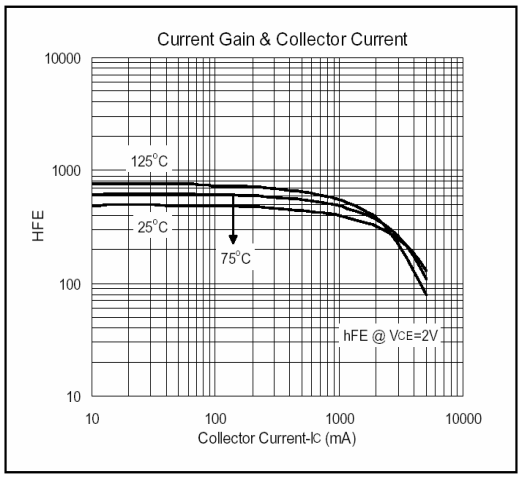
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV_{CBO}	40	-	-	V	I_C=100uA
BV_{CEO}	20	-	-	V	I_C=1mA
BV_{EBO}	7	-	-	V	I_E=10uA
I_{CBO}	-	-	100	nA	V_{CB}=60V
I_{EBO}	-	-	100	nA	V_{EB}=7V
*$V_{CE(sat)}$	-	350	1000	mV	I_C=3A, I_B=100mA
*h_{FE1}	230	-	800		V_{CE}=2V, I_C=500mA
*h_{FE2}	150	-	-		V_{CE}=2V, I_C=2A
fT	-	150	-	MHz	V_{CE}=6V, I_E=50mA
Cob	-	-	50	pF	V_{CB}=20V, f=1MHz

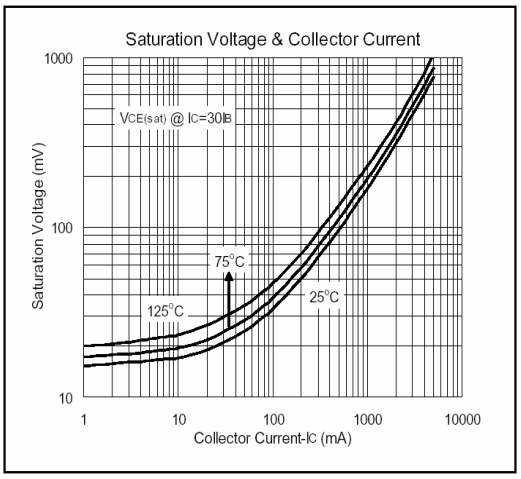
* Pulse Test: Pulse Width≦380μs, Duty Cycle≦2%

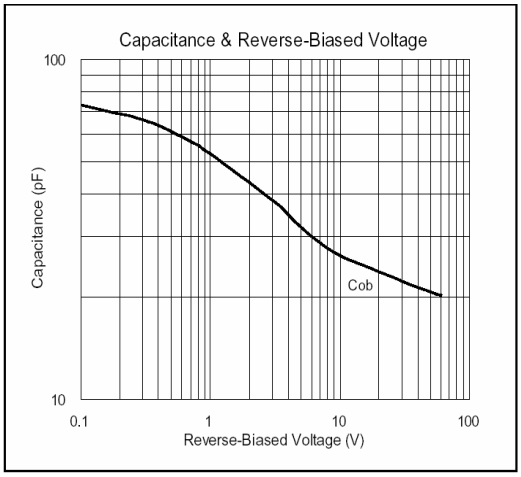
Classification Of h_{FE1}

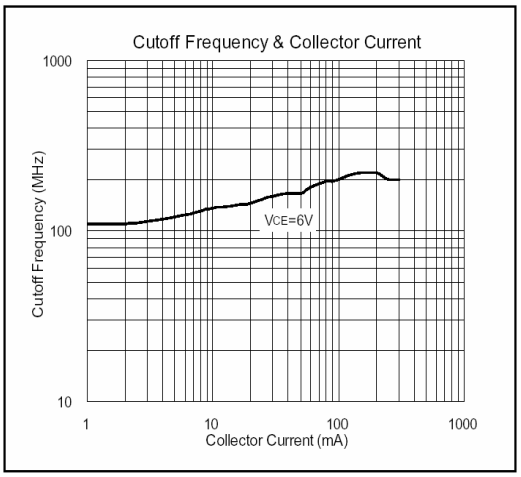
Rank	Q	R	S
Range	230 ~ 380	340 ~ 600	560 ~ 800

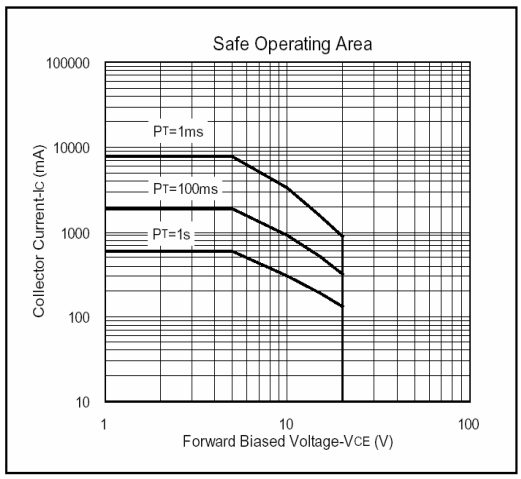
Characteristics Curve











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