

GTM CORPORATION

ISSUED DATE :2005/05/12
REVISED DATE :

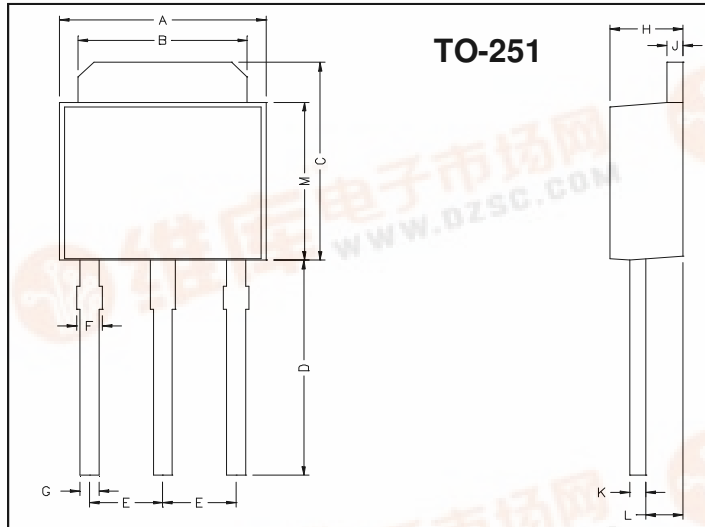
GI965

NPN EPITAXIAL PLANAR TRANSISTOR

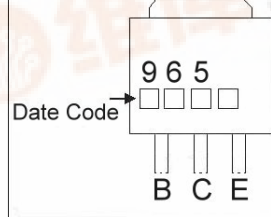
Description

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

Package Dimensions



Marking :



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°C, unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V _{CB0}	40	V
Collector to Emitter Voltage	V _{CEO}	20	V
Emitter to Base Voltage	V _{EB0}	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)

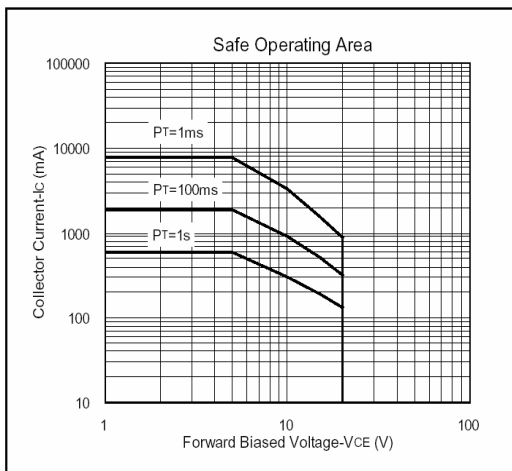
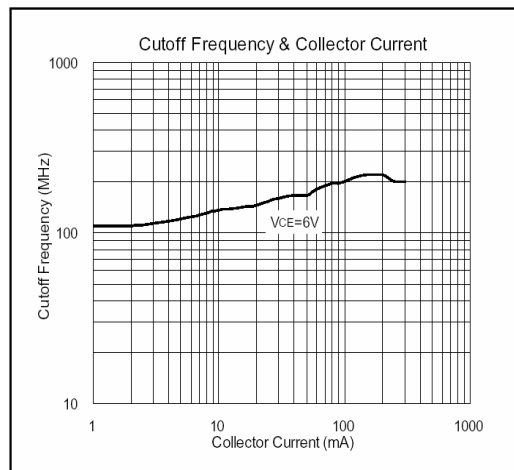
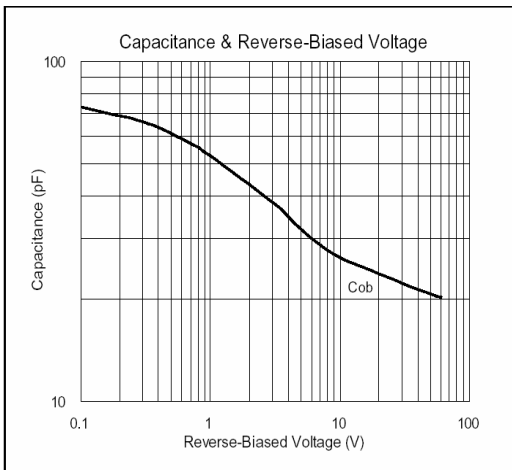
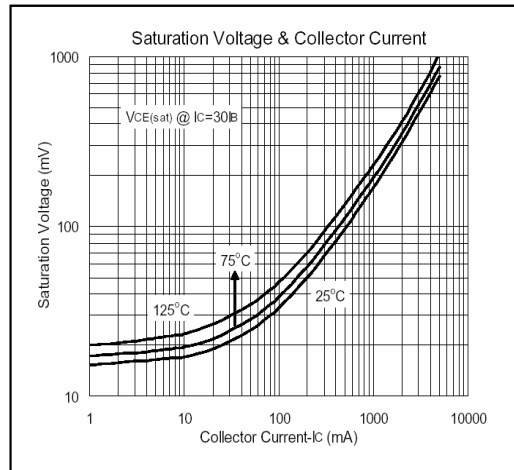
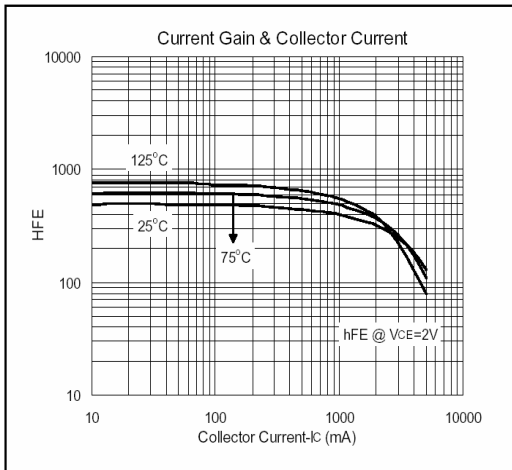
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CB0}	40	-	-	V	I _C =100uA
BV _{CEO}	20	-	-	V	I _C =1mA
BV _{EB0}	7	-	-	V	I _E =10uA
I _{CB0}	-	-	100	nA	V _{CB} =60V
I _{EB0}	-	-	100	nA	V _{EB} =7V
*V _{CE(sat)}	-	350	1000	mV	I _C =3A, I _B =100mA
*h _{FE1}	230	-	800		V _{CE} =2V, I _C =500mA
*h _{FE2}	150	-	-		V _{CE} =2V, I _C =2A
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 hFE1

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

Characteristics Curve



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