

# GTM CORPORATION

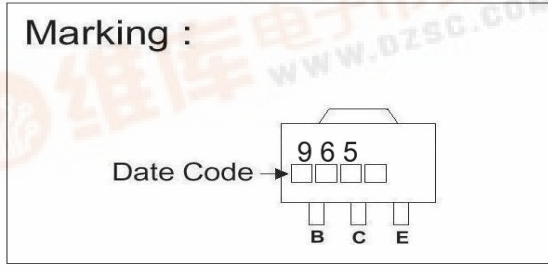
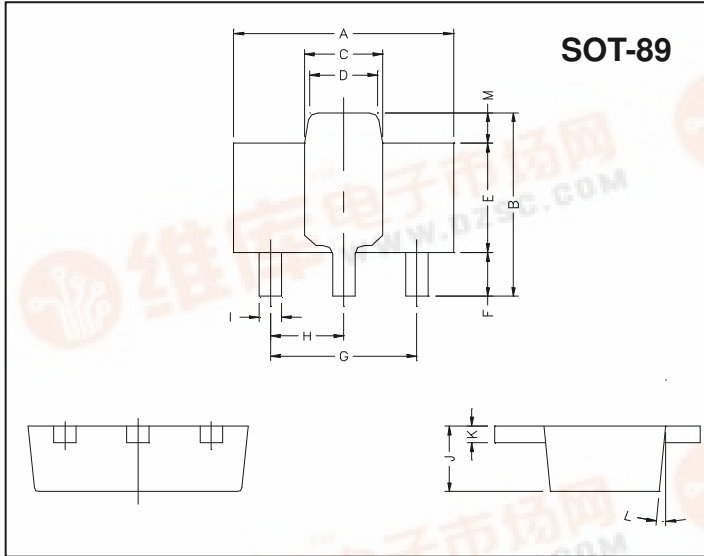
ISSUED DATE :2004/04/16  
REVISED DATE :2004/12/08B

## GM965 NPN EPITAXIAL PLANAR TRANSISTOR

### Description

The GM965 is designed for use as AF output amplifier and flash unit.

### Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5° TYP.	
			M	0.70 REF.	

### Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55 ~ +150	°C

### Absolute Maximum Ratings at Ta = 25°C

Collector to Base Voltage	BVCBO	40	V
Collector to Emitter Voltage	BVCEO	20	V
Emitter to Base Voltage	BVEBO	7.0	V
Collector Current (Continuous)	IC	5	A
Collector Current (Peak PT=10mS)	IC	8	A
Total Power Dissipation at Ta = 25°C	PD	1.2	W

### Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	40	-	-	V	IC=100uA
BVCEO	20	-	-	V	IC=1mA
BVEBO	7	-	-	V	IE=10uA
ICBO	-	-	0.1	uA	VCB=60V
IEBO	-	-	0.1	uA	VEB=7V
*VCE(sat)	-	0.35	1	V	IC=3A, IB=0.1A
*hFE1	230	-	800		VCE=2V, IC=0.5A
*hFE2	150	-	-		VCE=2V, IC=2A
fT	-	150	-	MHz	VCE=6V, IE=50mA
Cob	-	-	50	pF	VCB=20V, f=1MHz

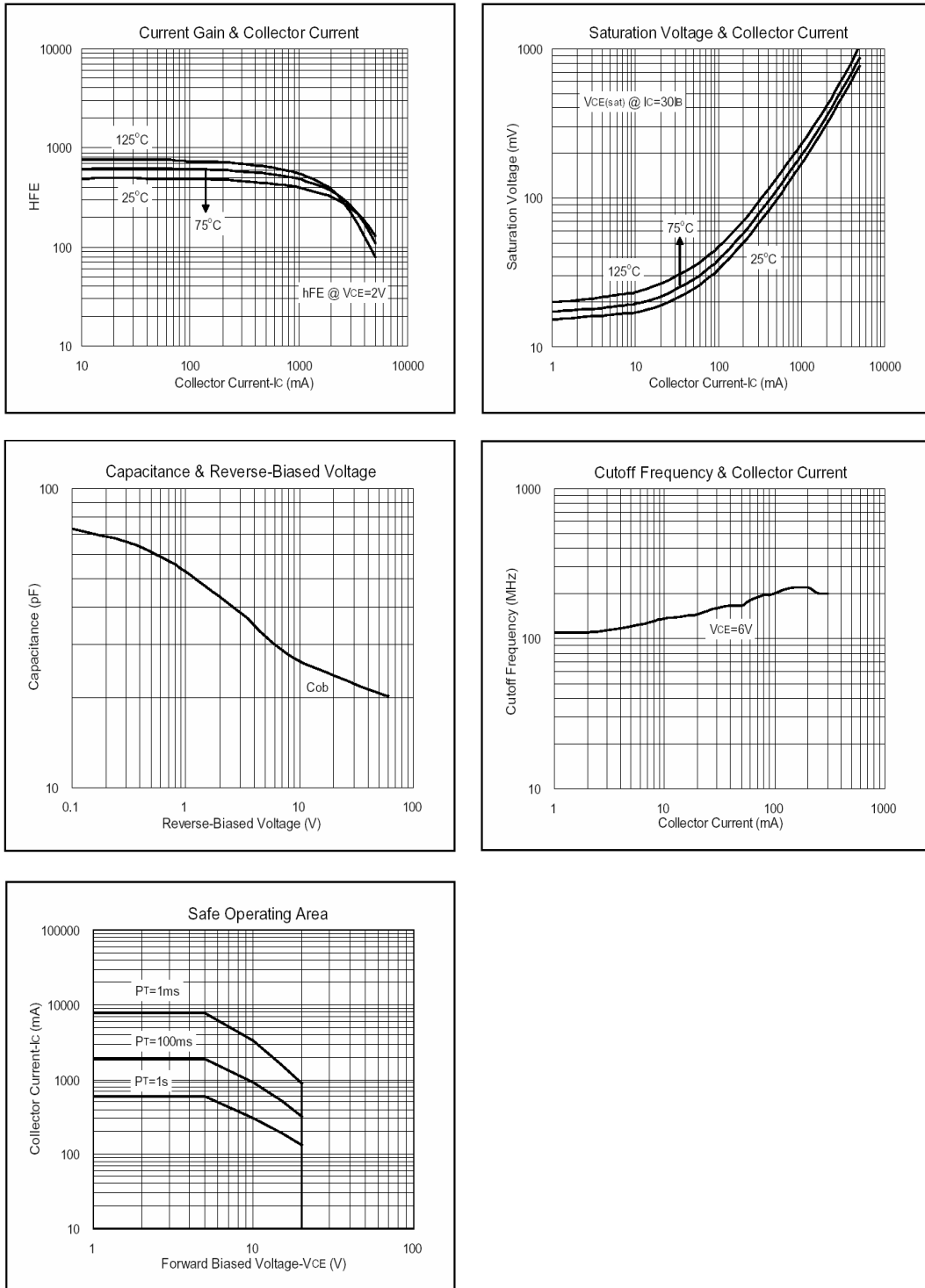
\* Pulse Test: Pulse Width ≤ 380us, Duty Cycle ≤ 2%

### Classification Of hFE1

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



## Characteristics Curve



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