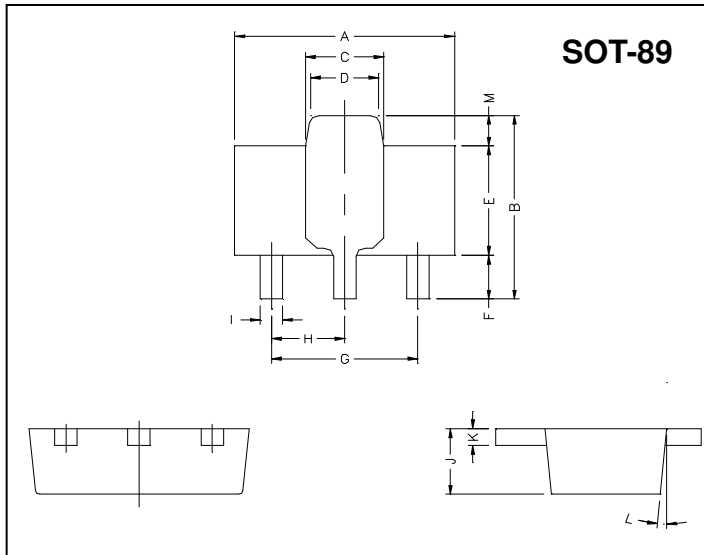
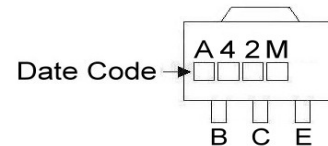


GMA42M**NPN PLASTI-ENCAPSULATE TRANSISTOR****Description**

The GMA42M is designed for application requires for high voltage.

Package Dimensions**Marking :**

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 at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	T _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage	VCBO	300	V
Collector to Emitter Voltage	VCEO	300	V
Emitter to Base Voltage	VEBO	5.0	V
Collector Current	I _C	500	mA
Total Device Dissipation FR-5 Board(Note1)	PD	500	mW
	PD(Derate above 25°C)	4.0	mW/°C
Thermal Resistance, Junction to Ambient ⁽¹⁾	R _{θJA}	250	°C/W

Note 1: FR-5=1.0*0.75*0.062in

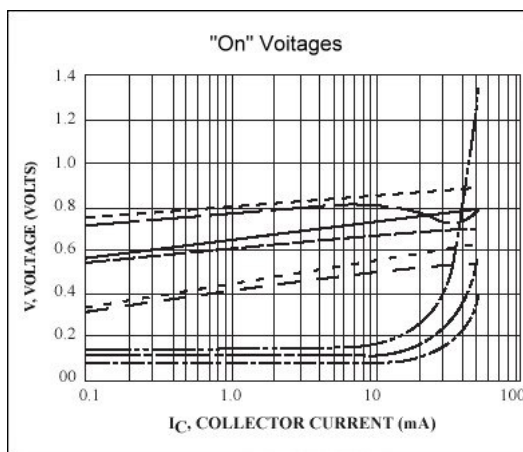
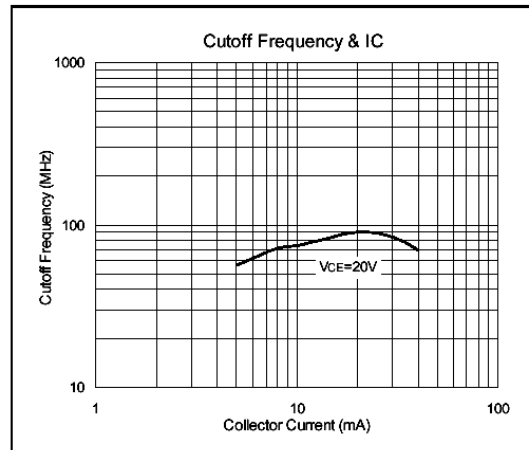
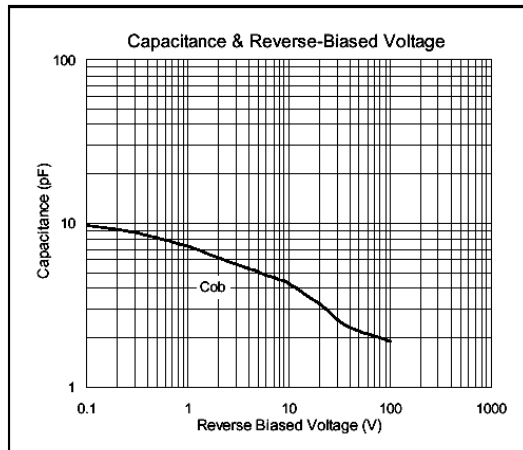
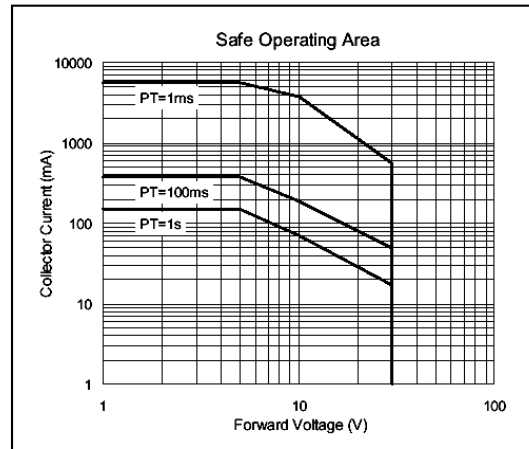
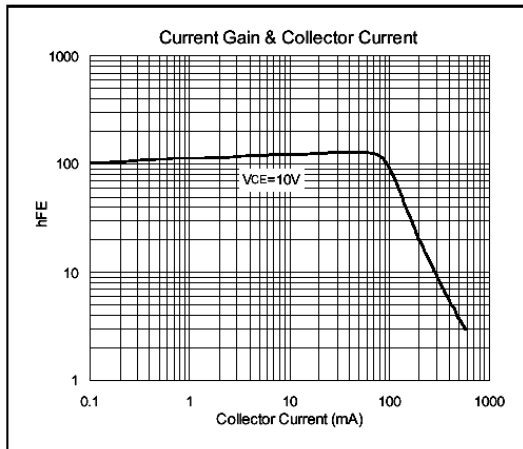
Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	300	-	-	V	I _C =100uA
BVCEO	300	-	-	V	I _C =1mA
BVEBO	5	-	-	V	I _E =100uA
ICBO	-	-	250	nA	VCB=200V
IEBO	-	-	100	nA	VEB=5V
VCE(sat)	-	-	200	mV	I _C =20mA, I _B =2mA
VBE(sat)	-	-	900	mV	I _C =20mA, I _B =2mA
hFE1	60	-	-		VCE=10V, I _C =1mA
hFE2	80	-	250		VCE=10V, I _C =10mA
hFE3	75	-	-		VCE=10V, I _C =30mA
f _T	50	-	-	MHZ	VCE=20V, I _C =10mA, f=30MHZ

Classification Of hFE2

Rank	A	B1	B2	C
hFE	80-100	100-150	150-200	200-250

Characteristics Curve



----- VCE(sat)@25°C, ICIB = 10
 ----- VCE(sat)@125°C, ICIB = 10
 ----- VCE(sat)@-55°C, ICIB = 10
 ----- VBE(sat)@25°C, ICIB = 10
 ----- VBE(sat)@125°C, ICIB = 10
 ----- VBE(sat)@-55°C, ICIB = 10
 ----- VBE(on)@25°C, VCE = 10V
 ----- VBE(on)@125°C, VCE = 10V
 ----- VBE(on)@-55°C, VCE = 10V

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