

GMA94

PNP EPITAXIAL PLANAR TRANSISTOR

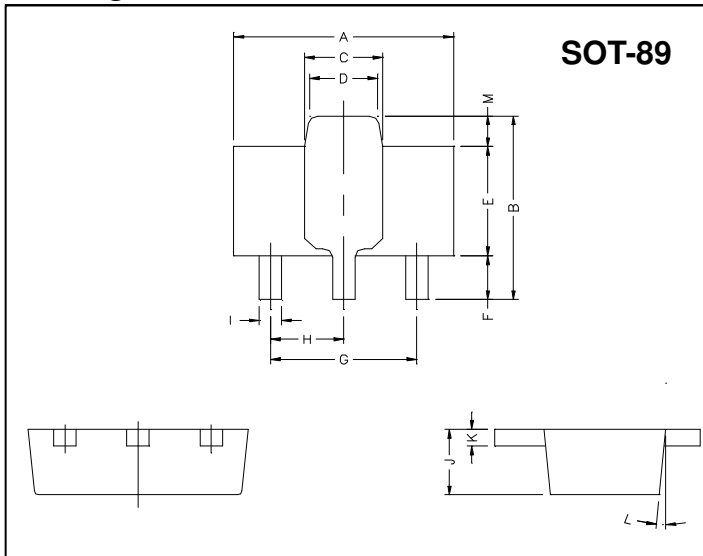
Description

The GMA94 is designed for application requires high voltage.

Features

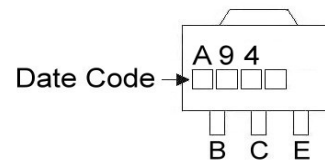
- High voltage: $V_{CE0}=400V$ (min) at $I_C=1mA$
- High current gain: $I_C=300mA$ at $25^\circ C$
- Complementary with GMA44

Package Dimensions



SOT-89

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 $T_a = 25^\circ C$

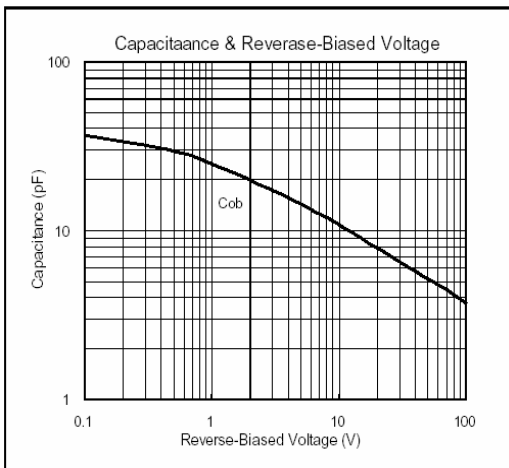
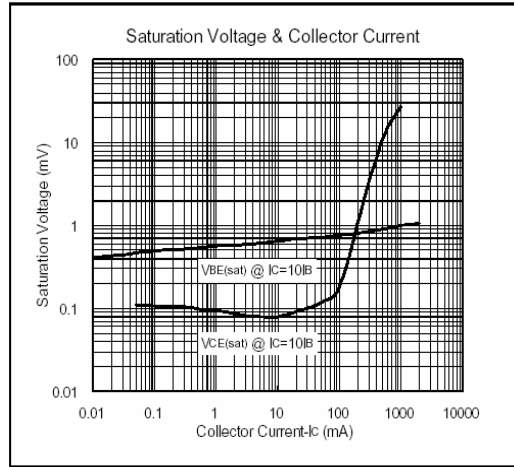
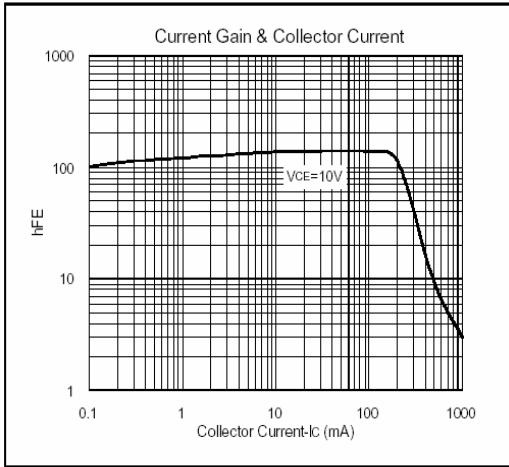
Parameter	Symbol	Ratings	Unit
Junction Temperature	T_j	+150	$^\circ C$
Storage Temperature Range	T_{STG}	-55 ~ +150	$^\circ C$
Collector to Base Voltage	V_{CBO}	-400	V
Collector to Emitter Voltage	V_{CEO}	-400	V
Emitter to Base Voltage	V_{EBO}	-6	V
Collect Current(DC)	I_C	-500	mA
Total Power Dissipation	P_D	1	W

Electrical Characteristics ($T_a = 25^\circ C$)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V_{CBO}	-400	-	-	V	$I_C=-100\mu A, I_E=0$
V_{CEO}	-400	-	-	V	$I_C=-1mA, I_B=0$
V_{EBO}	-6	-	-	V	$I_E=-100\mu A, I_C=0$
I_{CBO}	-	-	-100	nA	$V_{CB}=-400V, I_E=0$
I_{CES}	-	-	-500	nA	$V_{CE}=-400V, V_{BE}=0$
I_{EBO}	-	-	-100	nA	$V_{EB}=-6V, I_C=0$
* $V_{CE(sat)1}$	-	-	-350	mV	$I_C=-1mA, I_B=-0.1mA$
* $V_{CE(sat)2}$	-	-	-500	mV	$I_C=-10mA, I_B=-1mA$
* $V_{CE(sat)3}$	-	-	-750	mV	$I_C=-50mA, I_B=-5mA$
* $V_{BE(sat)}$	-	-	-750	mV	$I_C=-10mA, I_B=-1mA$
* h_{FE1}	40	-	-		$V_{CE}=-10V, I_C=-1mA$
* h_{FE2}	50	-	300		$V_{CE}=-10V, I_C=-10mA$
* h_{FE3}	45	-	-		$V_{CE}=-10V, I_C=-50mA$
* h_{FE4}	40	-	-		$V_{CE}=-10V, I_C=-100mA$

* Pulse Test: Pulse Width $\leq 380\mu s$, Duty Cycle $\leq 2\%$

Characteristics Curve



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