

A92

PNP Silicon Epitaxial Planar Transistor

Features

- PCM=0.5W(Tamb=25°C)
- High voltage.
- Complementary: A42
- RoHS compliant package

Applications

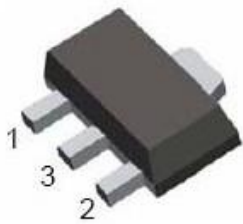
- Designed for high voltage driver application.

Mechanical Data

- Case: SOT-89

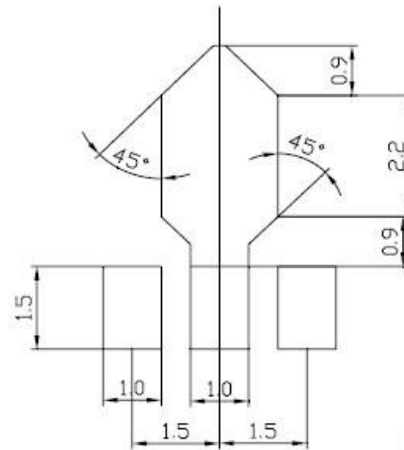
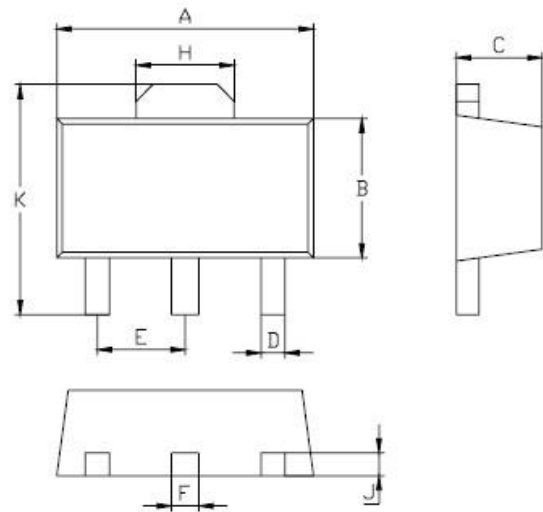
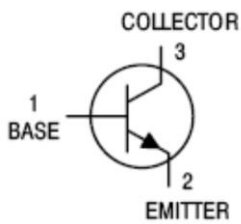
Packing & Order Information

2,500/Reel



RoHS
COMPLIANT

Graphic symbol



SOT-89		
Dim	Min	Max
A	4.5	4.7
B	2.3	2.7
C	1.5Typical	
D	0.35	0.55
E	1.4	1.6
F	0.4	0.6
H	1.55	1.75
J	0.4Typical	
K	4.15	4.25
All Dimensions in mm		

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

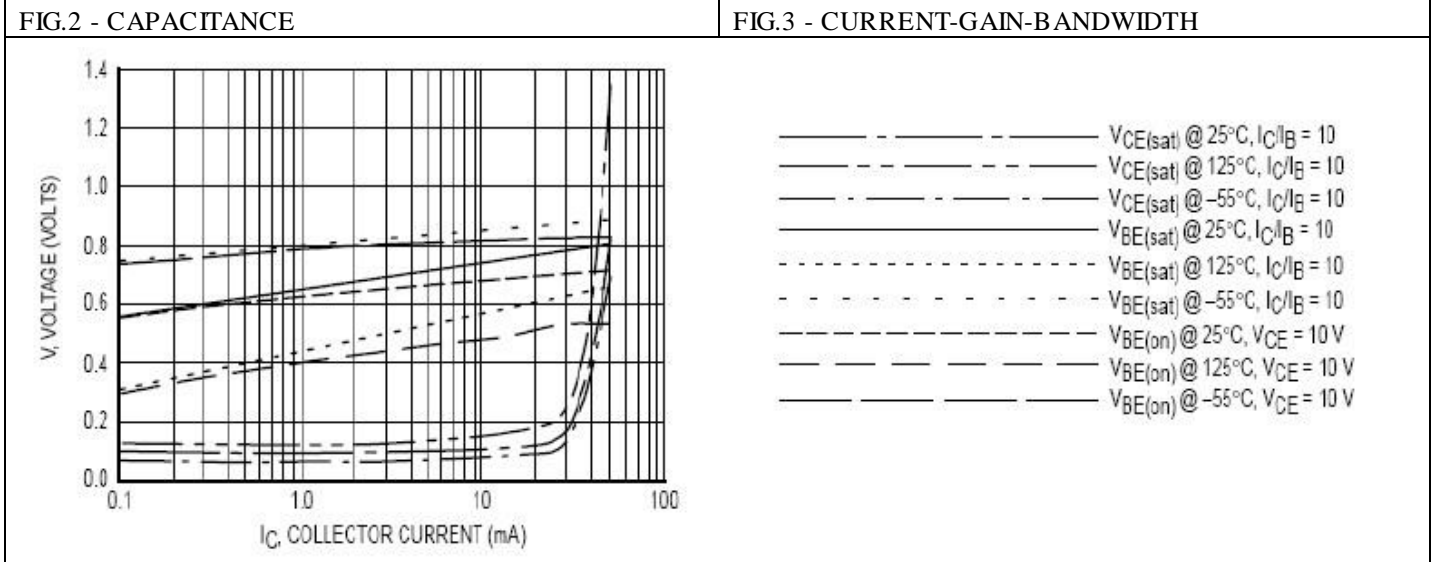
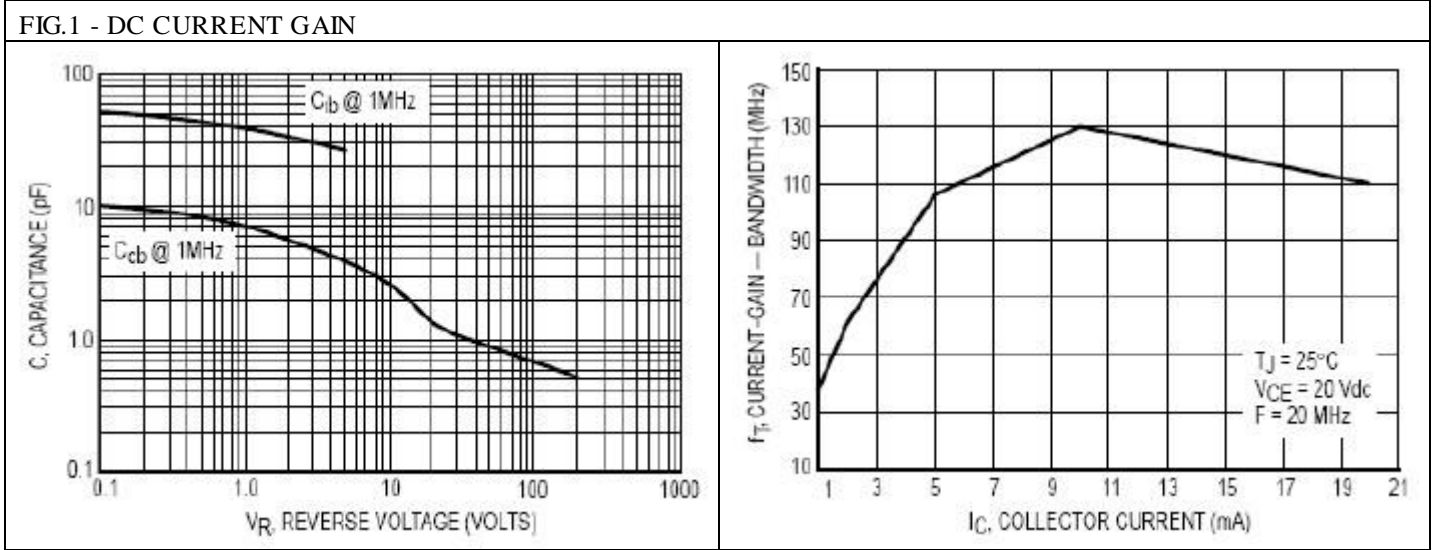
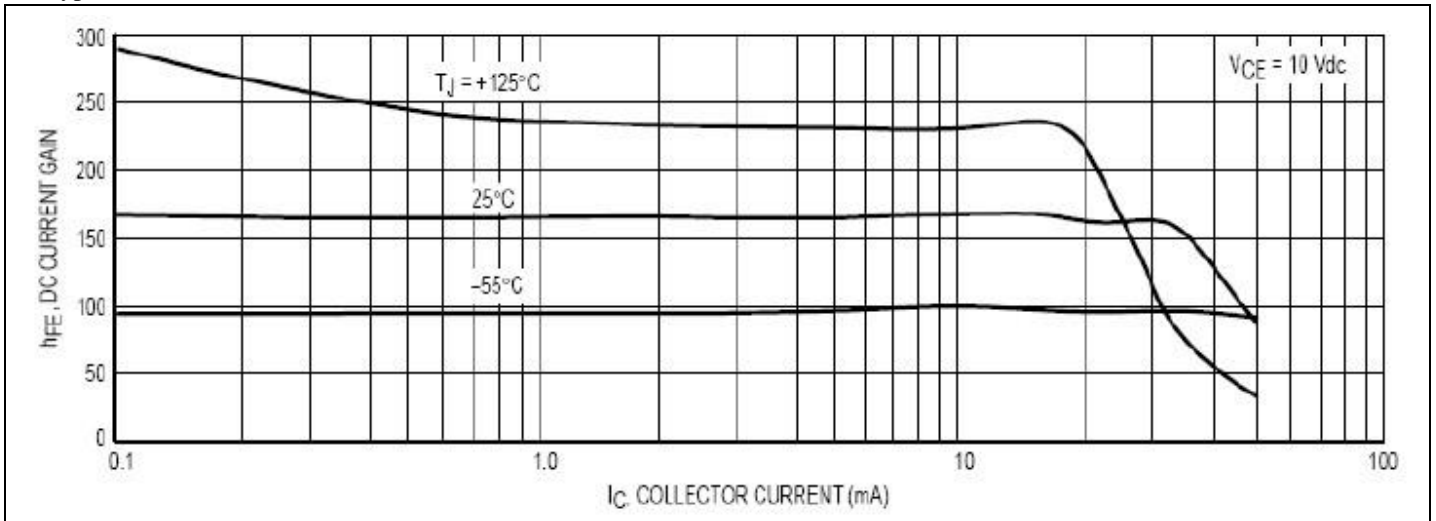
Absolute maximum ratings (Ta=25°C)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-300	V
V _{CEO}	Collector-Emitter Voltage	-300	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-0.5	A
P _C	Collector Power Dissipation	500	mW
T _j , T _{stg}	Junction and Storage Temperature	-55 to 150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Symbol	Parameter	Test Conditions	MIN	TYP	MAX	UNIT
V _{(BR)CBO}	Collector-base breakdown voltage	I _C = -100μA, I _E = 0	-300			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C = -1 mA, I _B = 0	-300			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E = -100μA, I _C = 0	-5			V
I _{CBO}	Collector cut-off current	V _{CB} = -200 V, I _B = 0			-0.25	μA
I _{EBO}	Emitter cut-off current	V _{EB} = -3 V, I _C = 0			-0.1	μA
h _{FE}	DC current gain	V _{CE} = -10 V, I _C = -1 mA	60			
		V _{CE} = -10 V, I _C = -10 mA	100	300		
		V _{CE} = -10 V, I _C = -30 mA	60			
V _{CE(sat)}	Collector-emitter saturation voltage	I _C = -20 mA, I _B = -2 mA			-0.5	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C = -20 mA, I _B = -2 mA			-0.9	V
f _T	Transition frequency	V _{CE} = -20 V, I _C = -10 mA f = 100MHz		50		MHz
C _{ob}	Collector output capacitance	V _{CB} = -20V, I _E = 0 f = 1MHz		6		pF

Typical Characteristics



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