

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

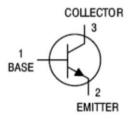
Packing & Order Information

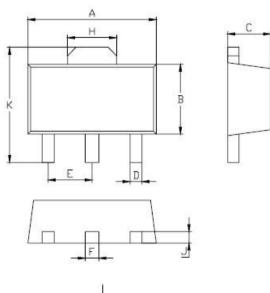
2,500/Reel

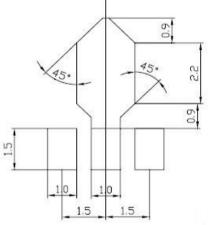


RoHS COMPLIANT

Graphic symbol







Dim	Min	Max		
Α	4.5	4.7		
В	2.3	2.7		
С	1.5Typical			
D	0.35	0.55		
E F	1.4 0.4	1.6 0.6		
				Н
J	0.4Typical			
K	4.15	4.25		



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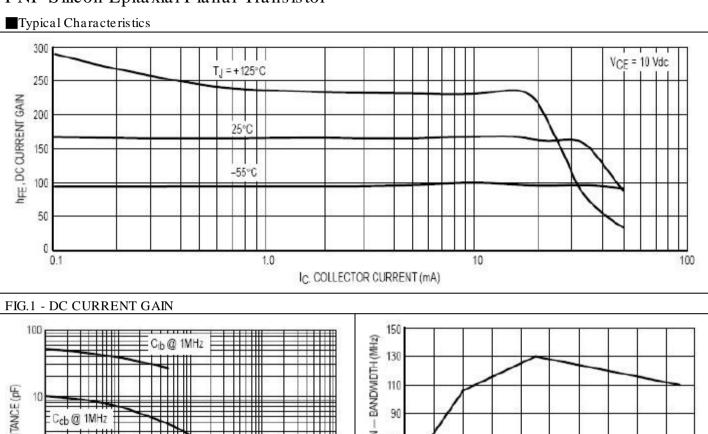
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

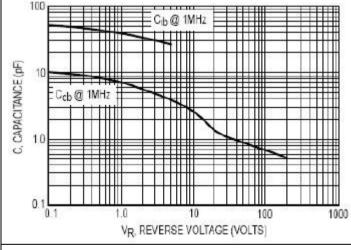
Absolute maximum ratings (Ta=25°C)							
Symbol	Parameter	Value	Unit				
V_{CBO}	Collector-Base Voltage	-300	V				
V _{CEO}	Collector-Emitter Voltage	-300	V				
V _{EBO}	Emitter-Base Voltage	-5	V				
Ic	Collector Current -Continuous	-0.5	A				
Pc	Collector Power Dissipation	500	mW				
Tj,Tstg	Junction and Storage Temperature	-55 to 150	°C				

ELECTRI	ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified								
Symbol	Parameter	Test Conditions	MIN	TYP	MAX	UNIT			
$V_{(BR)CBO} \\$	Collector-base breakdown voltage	$I_C = \text{-}100 \mu\text{A}$, $I_E = 0$	-300			V			
$V_{(BR)CEO} \\$	Collector-emitter breakdown voltage	$I_C = -1 \text{ mA}$, $I_B = 0$	-300			V			
V _{(BR)EBO}	Emitter-base breakdown voltage	$I_E = -100 \mu A$, $I_C = 0$	-5			V			
I _{CBO}	Collector cut-off current	$V_{CB} = -200 \text{ V}$, $I_B = 0$			-0.25	μA			
I _{EBO}	Emitter cut-off current	$V_{EB} = -3 \text{ V}, I_{C} = 0$			-0.1	μA			
$h_{ m FE}$	DC current gain	$V_{CE} = -10 \text{ V}$, $I_C = -1 \text{ mA}$	60						
		$V_{CE} = -10 \text{ V}$, $I_C = -10 \text{ mA}$	100	300					
		$V_{CE} = -10 \text{ V}$, $I_C = -30 \text{ mA}$	60						
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C = -20 \text{ mA}$, $I_B = -2 \text{ mA}$			-0.5	V			
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C = -20 \text{ mA}$, $I_B = -2 \text{ mA}$			-0.9	V			
f_{T}	Transition frequency	$V_{CE} = -20 \text{ V}$, $I_{C} = -10 \text{ mA}$		50		MHz			
		f = 100MHz							
C_{ob}	Collector output capacitance	V_{CB} = -20V , I_E = 0		6		pF			
		f = 1 MHz							



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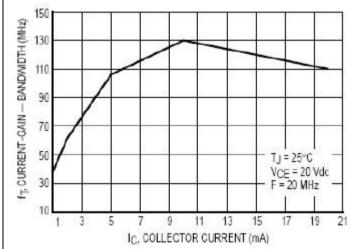


FIG.2 - CAPACITANCE

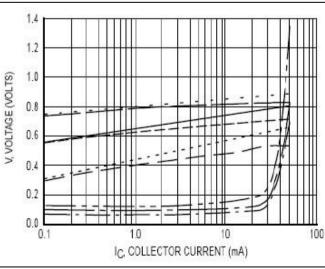


FIG.3 - CURRENT-GAIN-BANDWIDTH

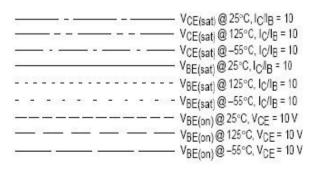


FIG.4 - "ON" VOLTAGES



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