



PBHV9110DH-AU

PNP Low Vce(sat) Transistor

Voltage

-100V

Current

-1A

Features

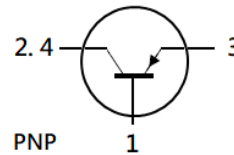
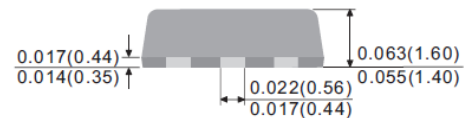
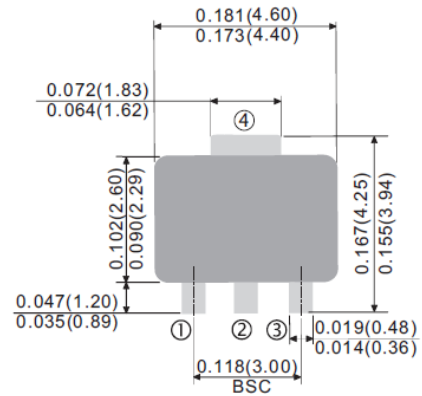
- Silicon PNP epitaxial type
- Low Vce(sat) -0.35V(max)@Ic/Ib= -500mA / -50mA
- High collector current capability
- Excellent DC current gain characteristics
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 Standard
- NPN complement: PBHV8110DH-AU

Mechanical Data

- Case: SOT-89 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.002 ounces, 0.057 grams
- Marking: 911D

SOT-89

Unit: inch(mm)



Pin Assignment:

1. Base
- 2.4. Collector
3. Emitter

Maximum Ratings and Thermal Characteristics (T_A=25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V _{CB0}	-120	V
Collector-Emitter Voltage	V _{CEO}	-100	V
Emitter-Base Voltage	V _{EBO}	-6	V
Collector Current (DC)	I _C	-1	A
Collector Current (Pulse)	I _{CP}	-3	A
Power Dissipation	P _D	1.4	W
Junction Temperature	T _J	150	°C
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55~150	°C
Thermal Resistance from Junction to Ambient ^(Note)	R _{θJA}	89	°C/W

Note: Mounted on FR4 PCB at 1 inch square copper pad.



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Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics						
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = -10\text{mA}, I_B = 0\text{A}$	-100	-	-	V
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = -0.1\text{mA}, I_E = 0\text{A}$	-120	-	-	V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = -0.1\text{mA}, I_C = 0\text{A}$	-6	-	-	V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -120\text{V}, I_E = 0\text{A}$	-	-	-500	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -6\text{V}, I_C = 0\text{A}$	-	-	-500	nA
ON characteristics						
DC Current Gain (Note1)	h_{FE}	$V_{CE} = -2\text{V}, I_C = -150\text{mA}$	140	-	330	-
		$V_{CE} = -5\text{V}, I_C = -500\text{mA}$	100	-	300	
		$V_{CE} = -5\text{V}, I_C = -1\text{A}$	40	-	-	
Collector-Emitter Saturation Voltage (Note1)	$V_{CE(SAT)}$	$I_C = -0.1\text{A}, I_B = -10\text{mA}$	-	-90	-150	mV
		$I_C = -0.5\text{A}, I_B = -50\text{mA}$	-	-260	-350	
		$I_C = -1\text{A}, I_B = -0.1\text{A}$	-	-430	-600	
Base-Emitter Saturation voltage (Note1)	$V_{BE(SAT)}$	$I_C = -0.1\text{A}, I_B = -10\text{mA}$	-	-	-1.0	V
		$I_C = -0.5\text{A}, I_B = -50\text{mA}$	-	-	-1.1	
Transition Frequency	f_T	$V_{CE} = -5\text{V}, I_E = 50\text{mA}$	100	-	-	MHz
Collector Output Capacitance	C_{OB}	$V_{CB} = -10\text{V}, I_E = 0\text{A},$ $f=1\text{MHz}$	-	-	10	pF

Note: 1. Pulse width $\leq 300\mu\text{s}$, Duty cycle $\leq 2\%$



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TYPICAL CHARACTERISTIC CURVES

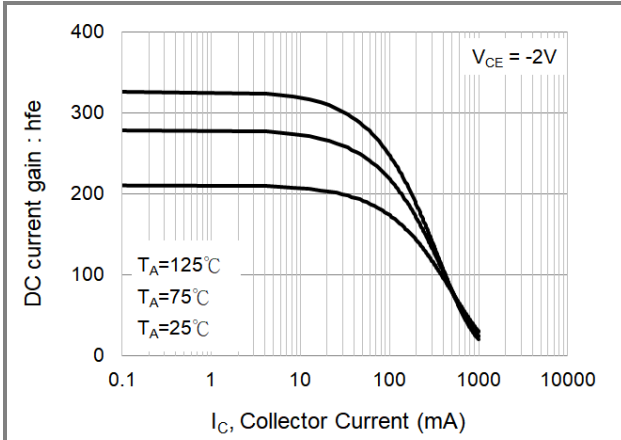


Fig.1 DC Current Gain

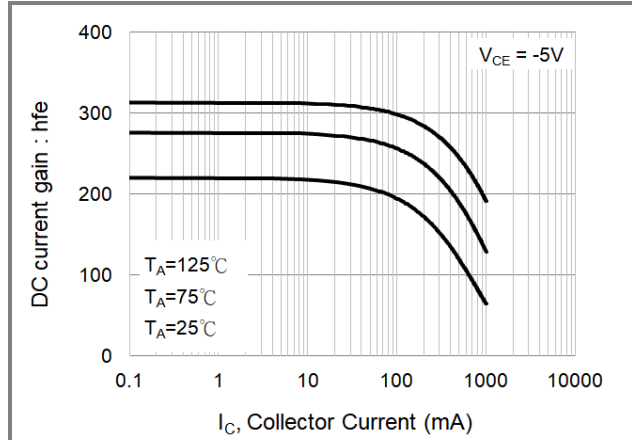


Fig.2 DC Current Gain

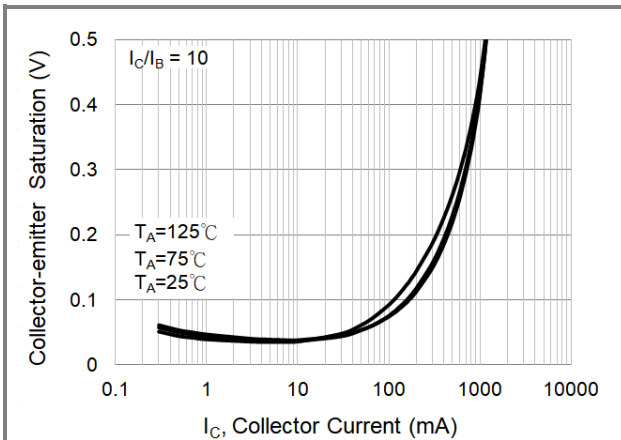


Fig.3 Collector-Emitter Saturation Voltage

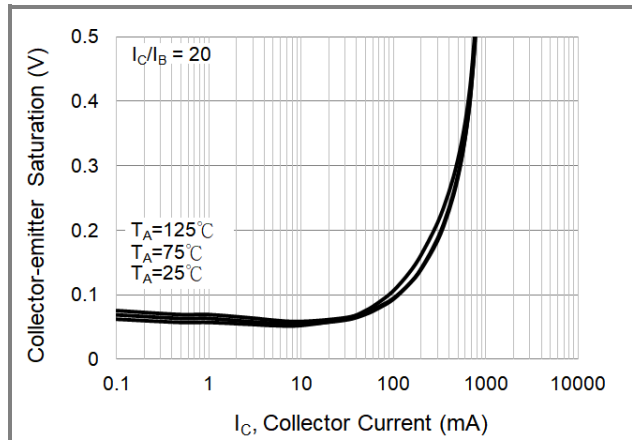


Fig.4 Collector-Emitter Saturation Voltage

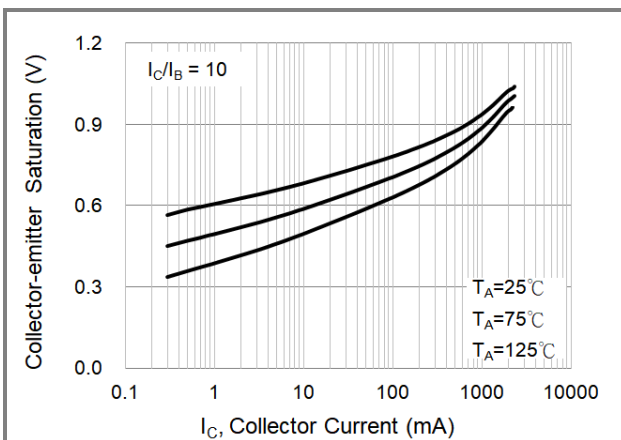


Fig.5 Base-Emitter Saturation Voltage

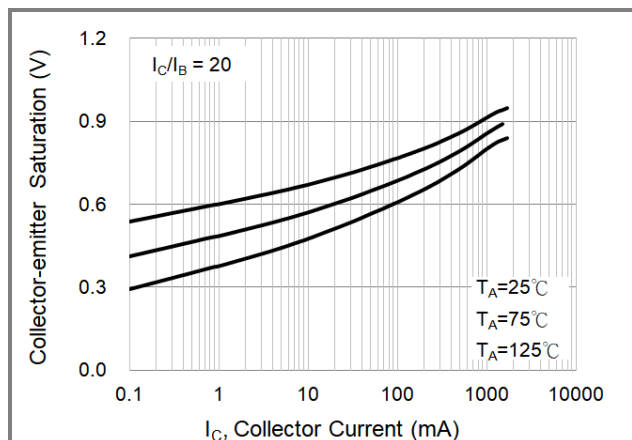


Fig.6 Base-Emitter Saturation Voltage



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TYPICAL CHARACTERISTIC CURVES

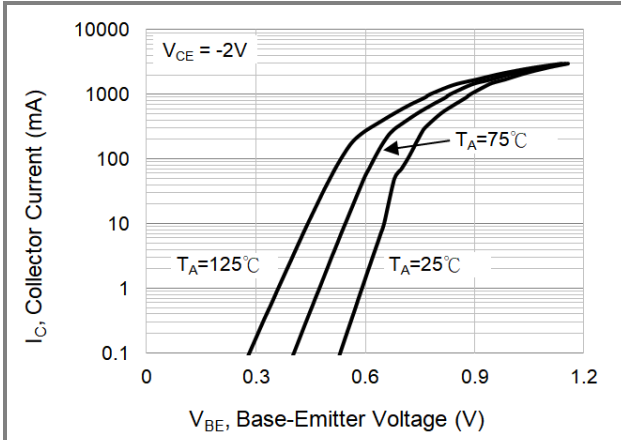


Fig.7 Base-Emitter Voltage

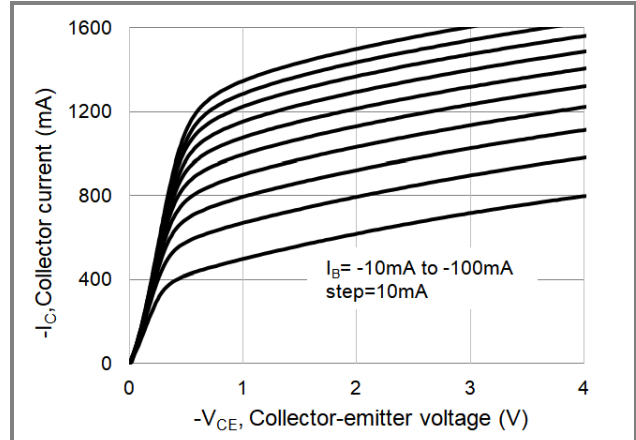


Fig.8 Collector Current

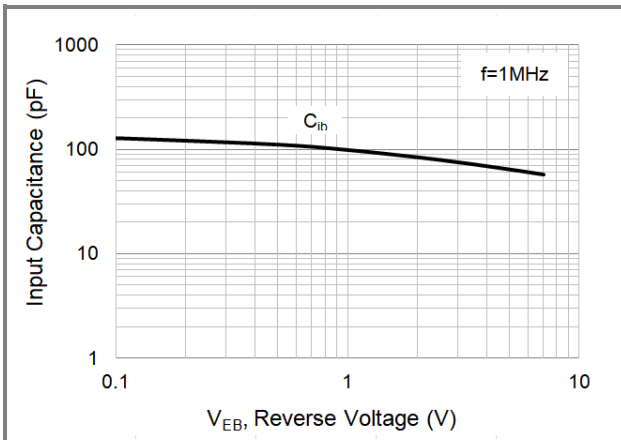


Fig.9 Input Capacitance

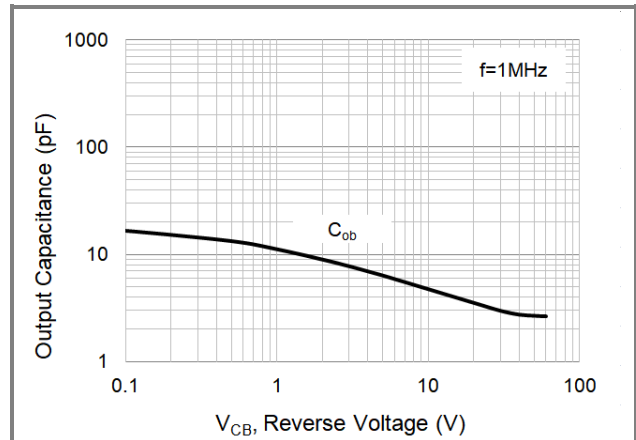


Fig.10 Output Capacitance

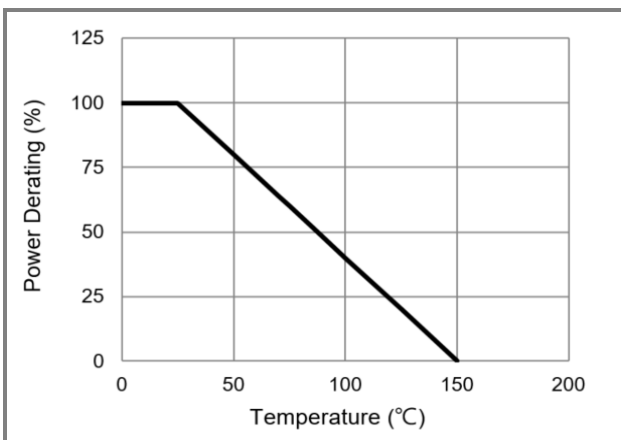


Fig.11 Power Derating Curve

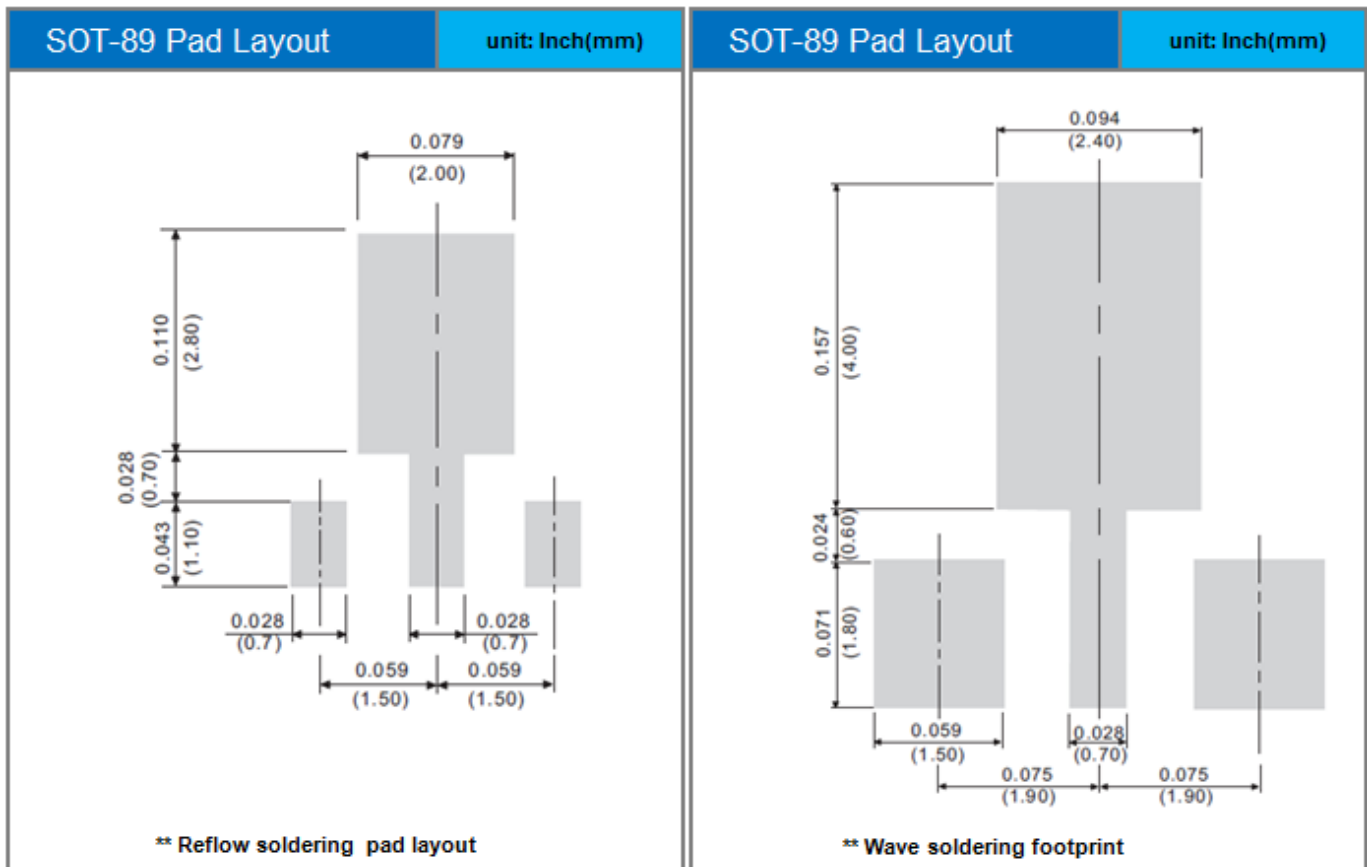


PBHV9110DH-AU

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PBHV9110DH-AU_R1_000A1	SOT-89	1k pcs / 7" reel	911D	Halogen free

MOUNTING PAD LAYOUT





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