



PNP Low Vce(sat) Transistor

Voltage -100V Current

-1A

Features

- Silicon PNP epitaxial type
- Low Vce(sat) -0.35V(max)@Ic/lb= -500mA / -50mA
- High collector current capability
- Excellent DC current gain characteristics
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 Standard
- NPN complement: PBHV8110DA

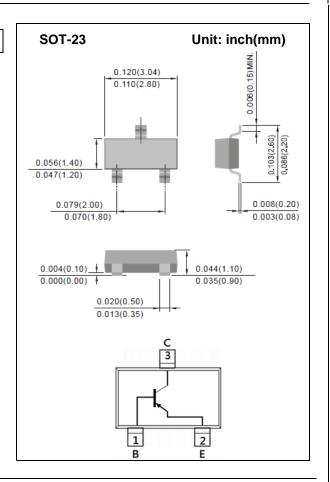
Mechanical Data

Case: SOT-23 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0003 ounces, 0.009 grams

Marking: 911



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

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V _{CBO}	-120	V
Collector-Emitter Voltage	V_{CEO}	-100	V
Emitter-Base Voltage	V _{EBO}	-6	V
Collector Current (DC)	I _C	-1	Α
Collector Current (Pulse)	I _{CP}	-3	Α
Power Dissipation	P _D	1.25	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)	$R_{\theta JA}$	100	°C/W

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





Electrical Characteristics (T_A=25 °C unless otherwise noted)

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

Note: 1. Pulse width < 300us, Duty cycle < 2%

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TYPICAL CHARACTERISTIC CURVES

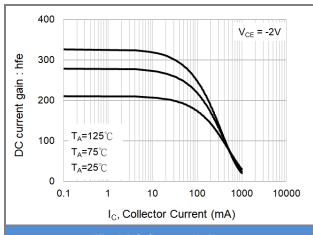


Fig.1 DC Current Gain

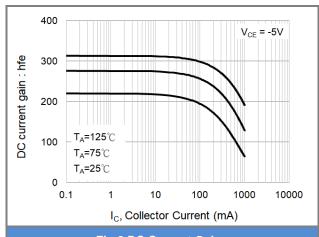


Fig.2 DC Current Gain

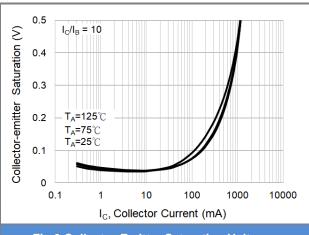


Fig.3 Collector-Emitter Saturation Voltage

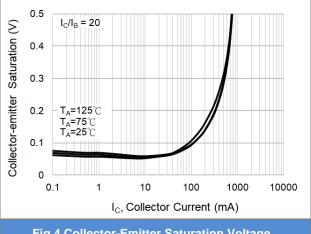
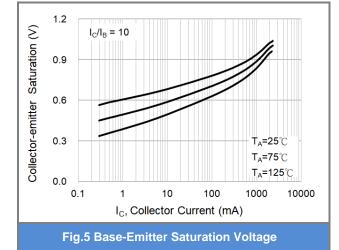
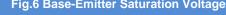
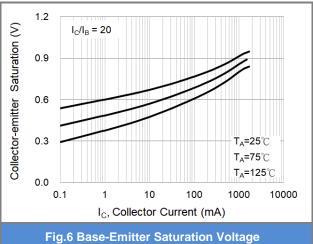


Fig.4 Collector-Emitter Saturation Voltage











TYPICAL CHARACTERISTIC CURVES

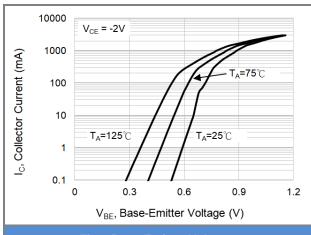


Fig.7 Base-Emitter Voltage

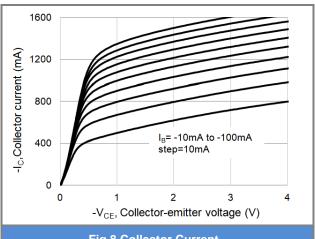
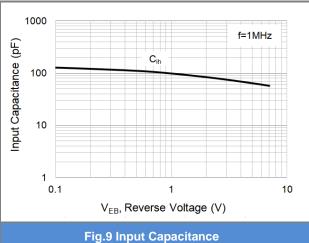
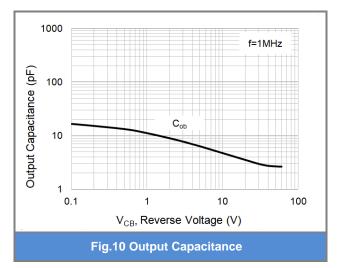
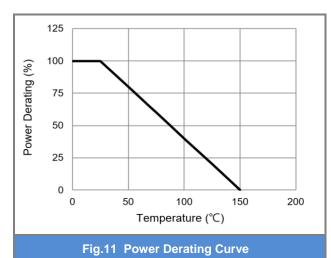


Fig.8 Collector Current







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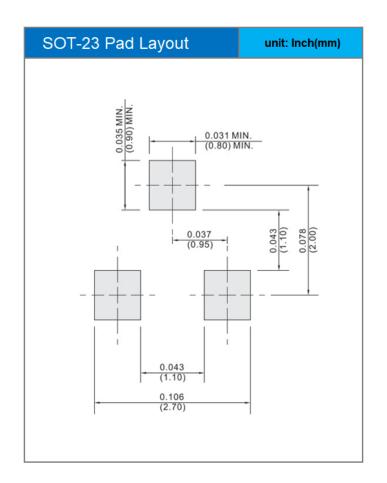




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PBHV9110DA_R1_00001	SOT-23	3k pcs / 7" reel	911	Halogen free

MOUNTING PAD LAYOUT



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