



PBHV9110DA

PNP Low Vce(sat) Transistor

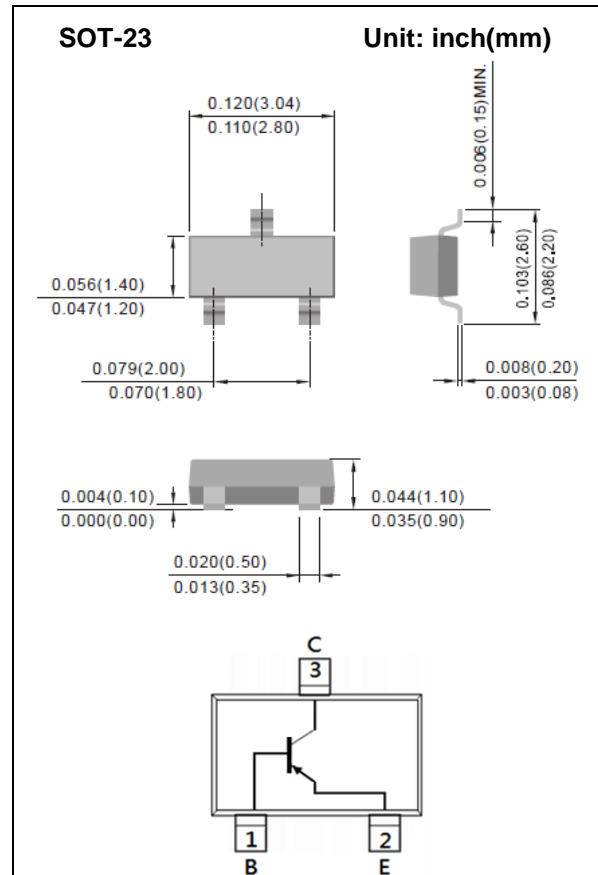
Voltage **-100V** **Current** **-1A**

Features

- Silicon PNP epitaxial type
- Low Vce(sat) -0.35V(max)@Ic/Ib= -500mA / -50mA
- High collector current capability
- Excellent DC current gain characteristics
- 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	A
Collector Current (Pulse)	I _{CP}	-3	A
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 _{θJA}	100	°C/W

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



PBHV9110DA

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 $\leq 2\%$



PBHV9110DA

TYPICAL CHARACTERISTIC CURVES

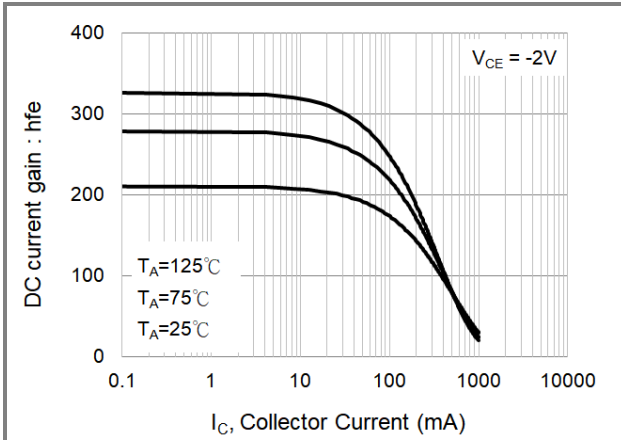


Fig.1 DC Current Gain

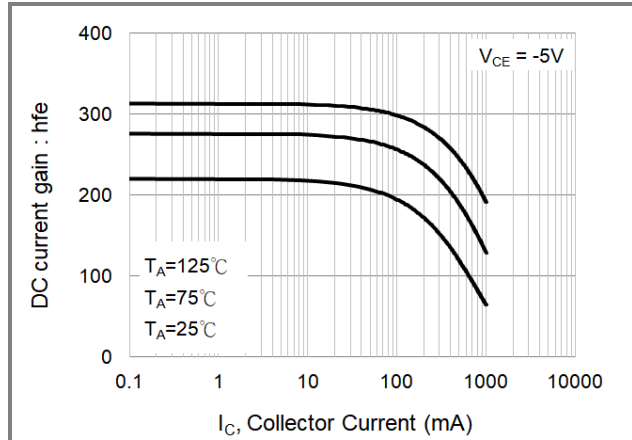


Fig.2 DC Current Gain

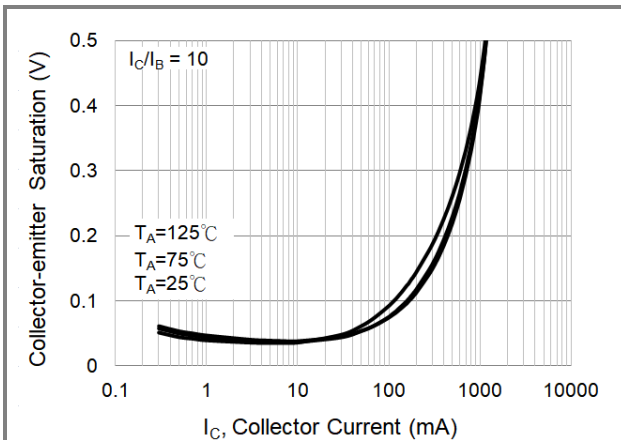


Fig.3 Collector-Emitter Saturation Voltage

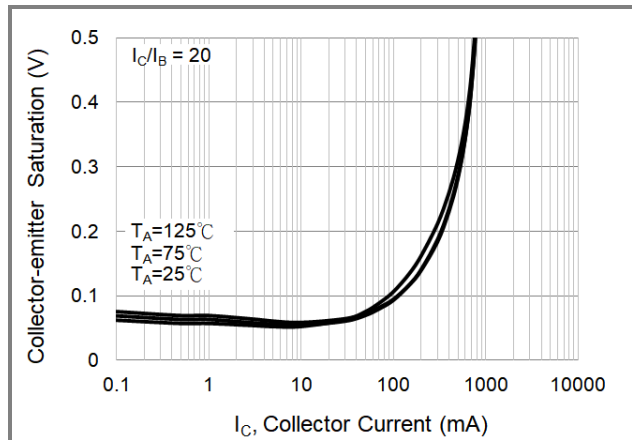


Fig.4 Collector-Emitter Saturation Voltage

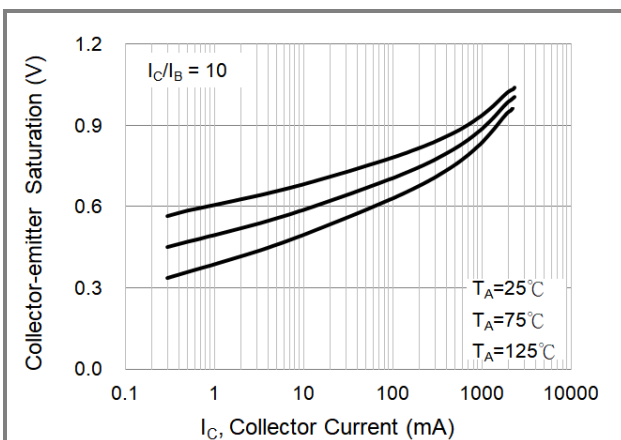


Fig.5 Base-Emitter Saturation Voltage

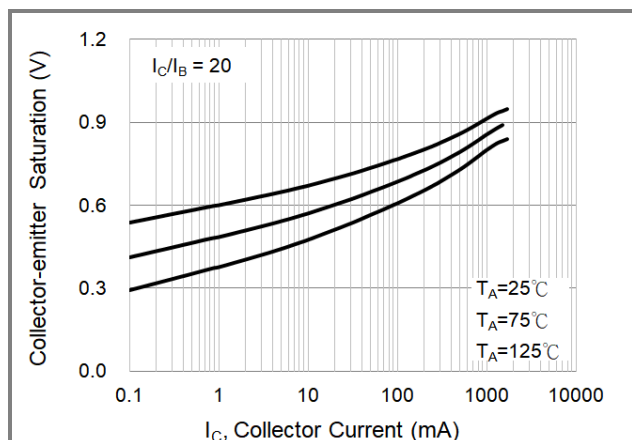


Fig.6 Base-Emitter Saturation Voltage



PBHV9110DA

TYPICAL CHARACTERISTIC CURVES

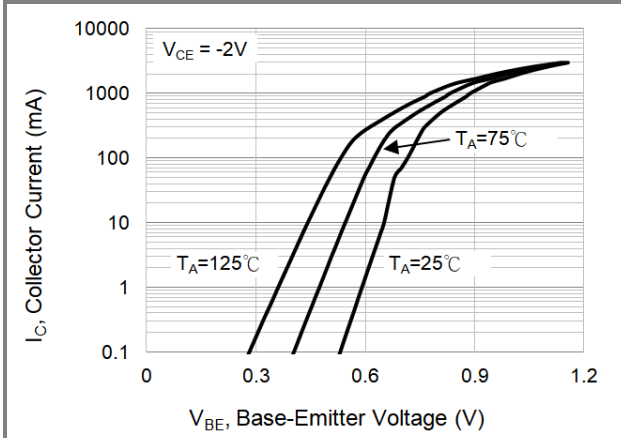


Fig.7 Base-Emitter Voltage

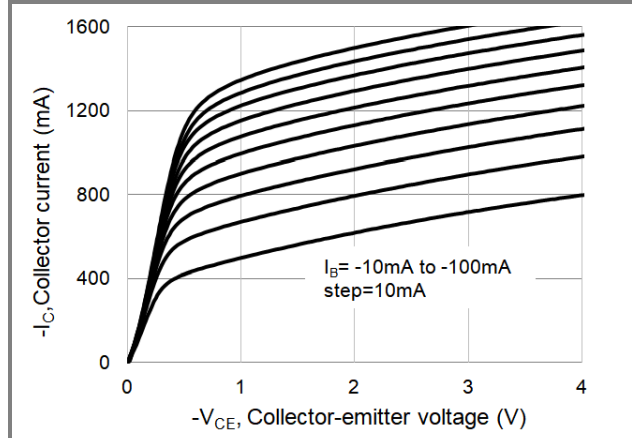


Fig.8 Collector Current

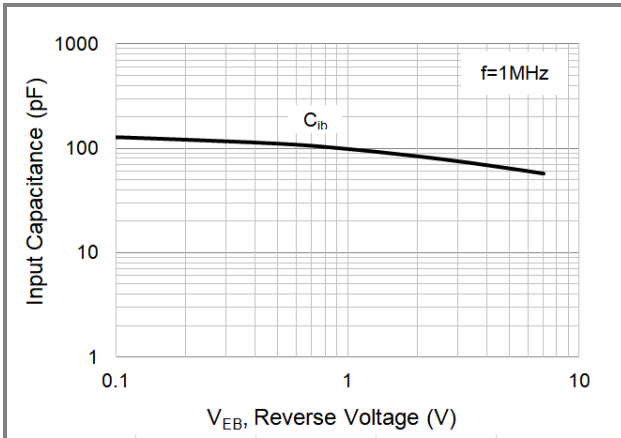


Fig.9 Input Capacitance

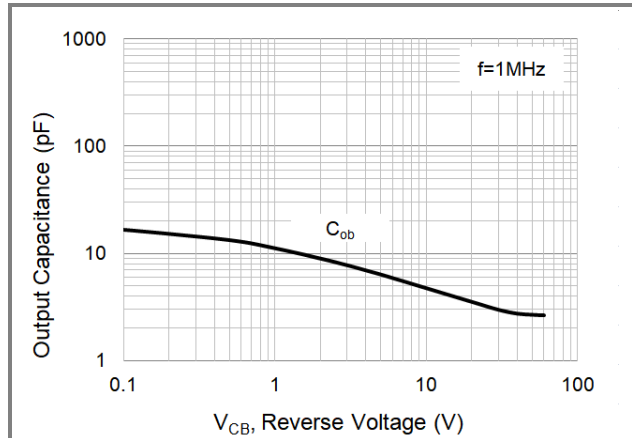


Fig.10 Output Capacitance

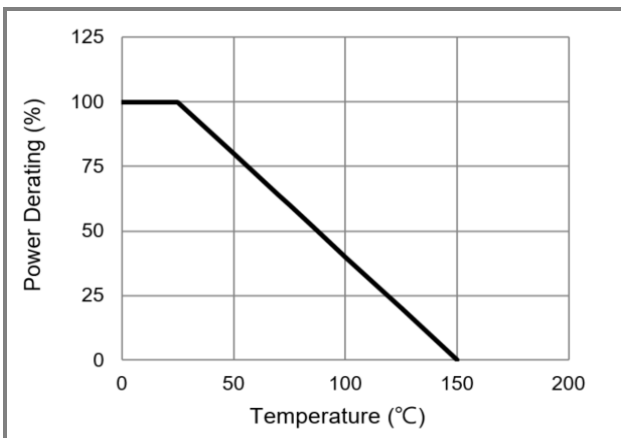


Fig.11 Power Derating Curve

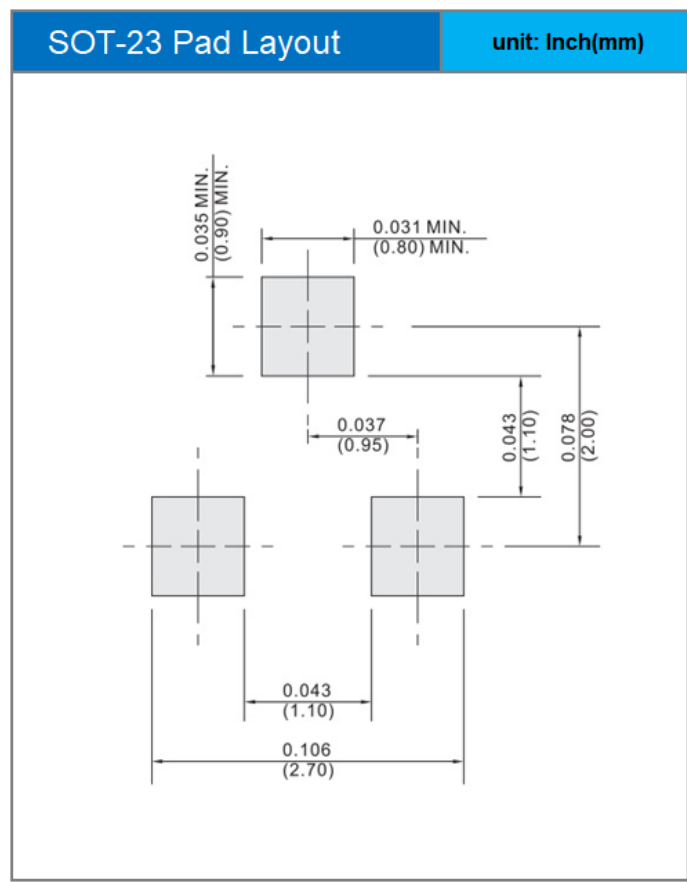


PBHV9110DA

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





PBHV9110DA

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)