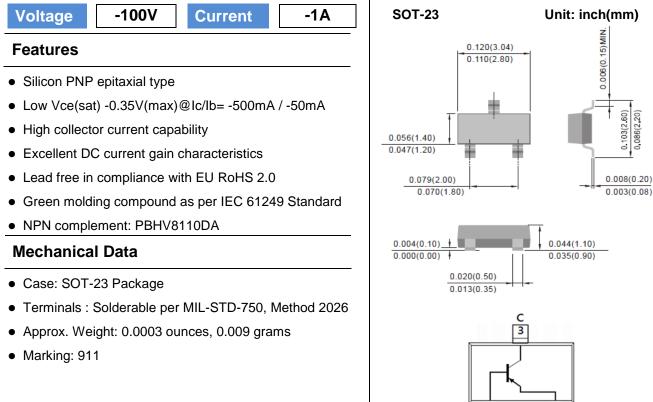
ΡΛΝ	JIT
	SEMI
	CONDUCTOR

### PNP Low Vce(sat) Transistor



### **Maximum Ratings and Thermal Characteristics** ( $T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V <sub>CBO</sub>	-120	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-100	V
Emitter-Base Voltage	V <sub>EBO</sub>	-6	V
Collector Current (DC)	Ι <sub>C</sub>	-1	A
Collector Current (Pulse)	I <sub>CP</sub>	-3	A
Power Dissipation	P <sub>D</sub>	1.25	W
Junction Temperature	TJ	150	°C
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55~150	°C
Thermal Resistance from Junction to Ambient (Note )	$R_{ ext{ heta}JA}$	100	°C/W

1

В

2

Ε

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



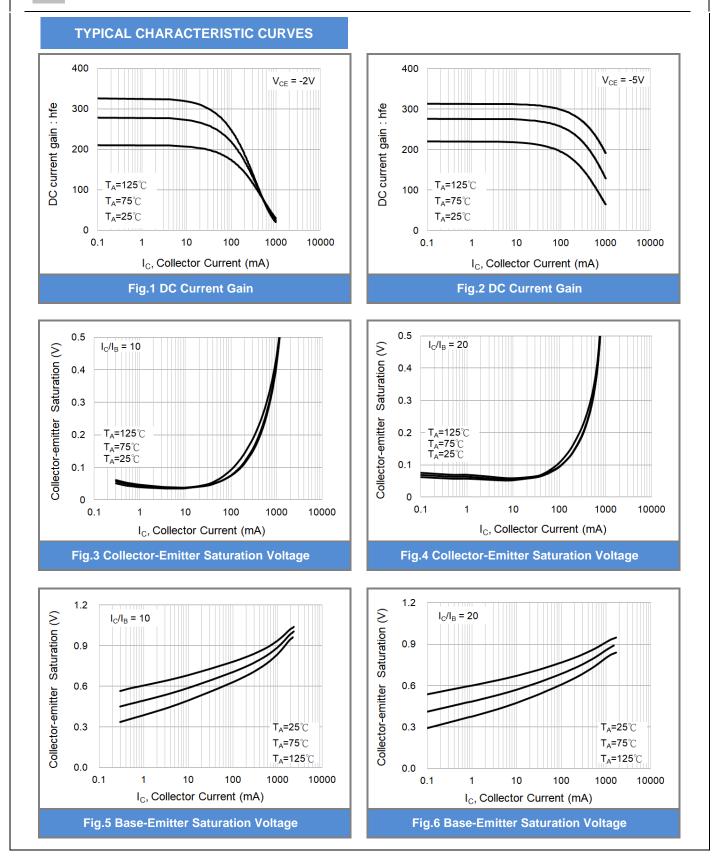
<b>Electrical Characteristics</b> (T <sub>A</sub> =25°C	C unless otherwise noted)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics						
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = -10mA, I <sub>B</sub> = 0A	-100	-	-	V
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> = -0.1mA, I <sub>E</sub> = 0A	-120	-	-	V
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> = -0.1mA, I <sub>C</sub> = 0A	-6	-	-	V
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> = -120V, I <sub>E</sub> = 0A	-	-	-500	nA
Emitter Cutoff Current	I <sub>EBO</sub>	$V_{EB}$ = -6V, I <sub>C</sub> = 0A	-	-	-500	nA
ON characteristics						
DC Current Gain (Note1)	h <sub>FE</sub>	$V_{CE}$ = -2V, $I_{C}$ = -150mA	140	-	330	-
		$V_{CE}$ = -5V, I <sub>C</sub> = -500mA	100	-	300	
		$V_{CE}$ = -5V, $I_{C}$ = -1A	40	-	-	
Collector-Emitter Saturation Voltage (Note1)	V <sub>CE(SAT)</sub>	I <sub>C</sub> = -0.1A, I <sub>B</sub> = -10mA	-	-90	-150	mV
		I <sub>C</sub> = -0.5A, I <sub>B</sub> = -50mA	-	-260	-350	
		I <sub>C</sub> = -1A, I <sub>B</sub> = -0.1A	-	-430	-600	
Base-Emitter Saturation voltage	V <sub>BE(SAT)</sub>	I <sub>C</sub> = -0.1A, I <sub>B</sub> = -10mA	-	-	-1.0	
(Note1)		I <sub>C</sub> = -0.5A, I <sub>B</sub> = -50mA	-	-	-1.1	V
Transition Frequency	f <sub>T</sub>	$V_{CE}$ = -5V, I <sub>E</sub> = 50mA	100	-	-	MHz
Collector Output Capacitance	С <sub>ов</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 0A, f=1MHz	-	-	10	pF

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

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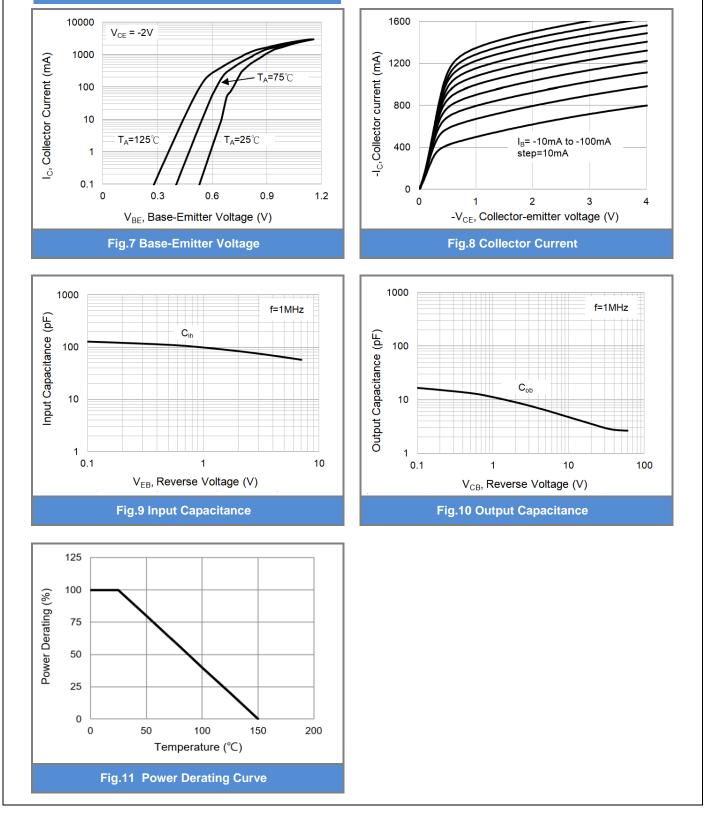
August 16,2019-REV.00



PBHV9110DA



August 16,2019-REV.00



## PBHV9110DA

**TYPICAL CHARACTERISTIC CURVES** 

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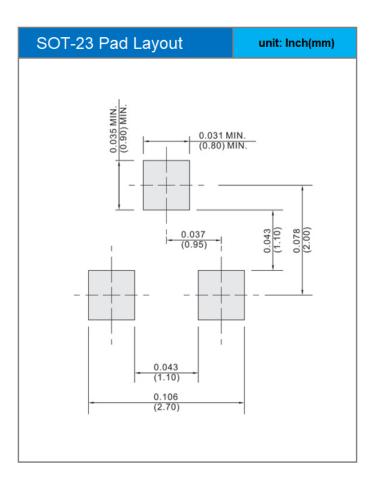




#### PART NO PACKING CODE VERSION

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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