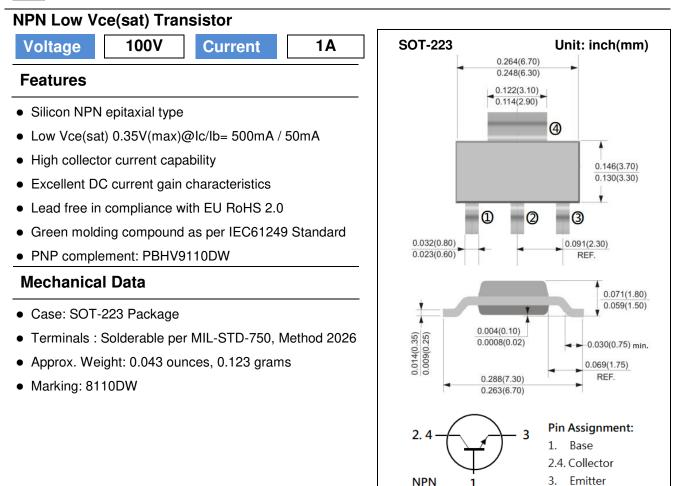
PΛN	ĴΪΤ
	SEMI CONDUCTOR





### Maximum Ratings and Thermal Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	LIMIT	UNITS
V <sub>CBO</sub>	120	V
$V_{CEO}$	100	V
V <sub>EBO</sub>	6	V
I <sub>C</sub>	1	А
I <sub>CP</sub>	3	А
P <sub>D</sub>	2.6	W
TJ	150	°C
$T_{J}, T_{STG}$	-55~150	°C
$R_{ extsf{ heta}JA}$	48	°C/W
	V <sub>CBO</sub> V <sub>CEO</sub> V <sub>EBO</sub> I <sub>C</sub> I <sub>CP</sub> P <sub>D</sub> T <sub>J</sub> T <sub>J</sub> ,T <sub>STG</sub>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

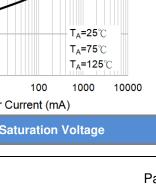
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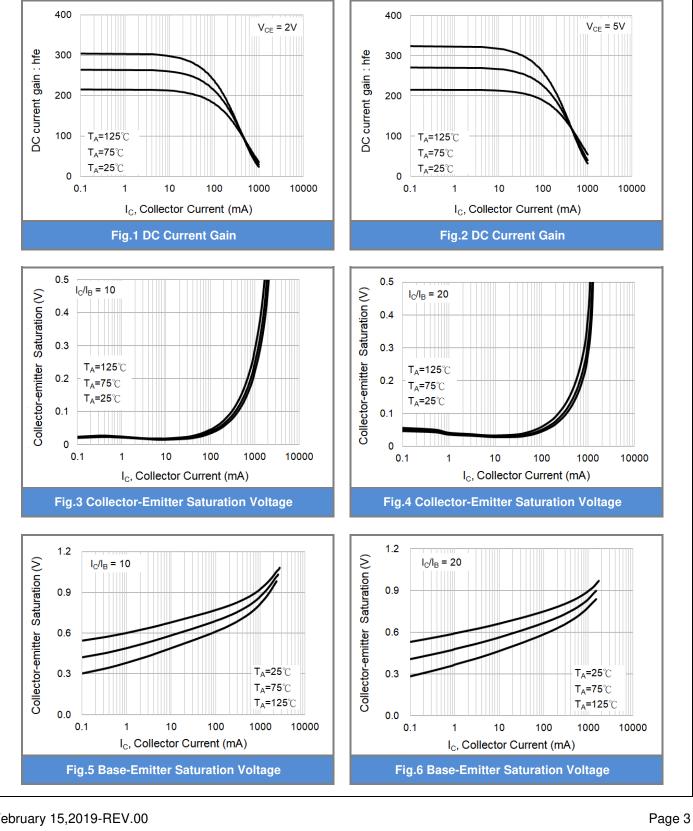


<b>Electrical Characteristics</b> ( $T_A=25^{\circ}C$ unless otherwise noted)						
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics			•		•	•
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> = 0A	100	-	-	V
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> = 0.1mA, I <sub>E</sub> = 0A	120	-	-	V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	I <sub>E</sub> = 0.1mA, I <sub>C</sub> = 0A	6	-	-	V
Collector Cutoff Current	I <sub>CBO</sub>	$V_{CB}$ = 120V, $I_{E}$ = 0A	-	-	500	nA
Emitter Cutoff Current	I <sub>EBO</sub>	$V_{EB}$ = 6V, $I_C$ = 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	-	38	120	mV
		I <sub>C</sub> = 0.5A, I <sub>B</sub> = 50mA	-	117	350	
		I <sub>C</sub> = 1A, I <sub>B</sub> = 0.1A	-	220	450	
Base-Emitter Saturation voltage		$I_{C}= 0.1A, I_{B}= 10mA$	-	-	1.0	
(Note1)	$V_{BE(SAT)}$	$I_{C}= 0.5A, I_{B}= 50mA$	-	-	1.1	V
Transition Frequency	f <sub>T</sub>	$V_{CE}$ = 5V, $I_E$ = -50mA	100	-	-	MHz
Collector Output Capacitance	Сов	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0A, f=1MHz	-	-	10	pF

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

February 15,2019-REV.00



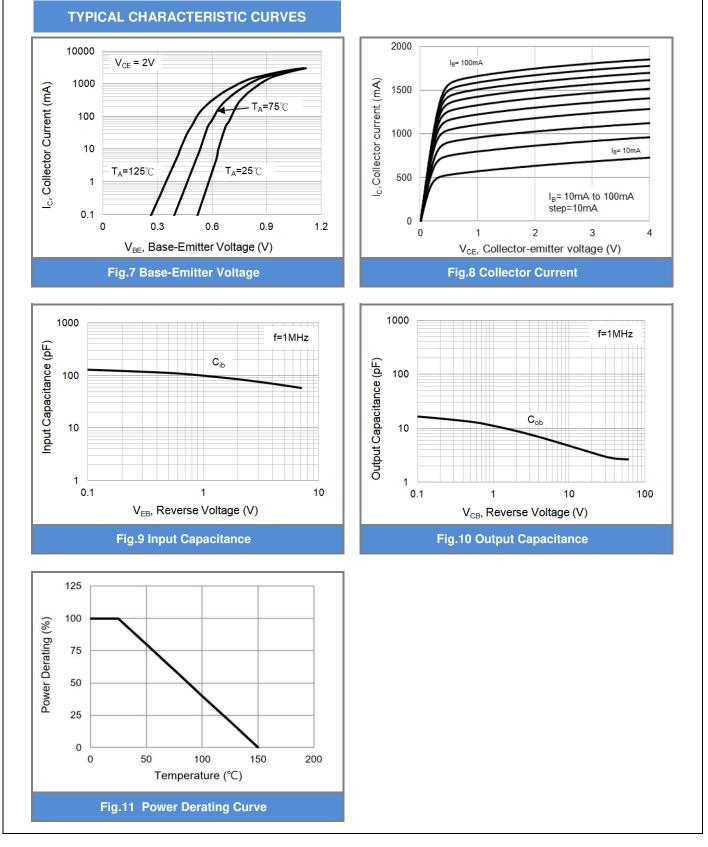


# **PBHV8110DW**

**TYPICAL CHARACTERISTIC CURVES** 









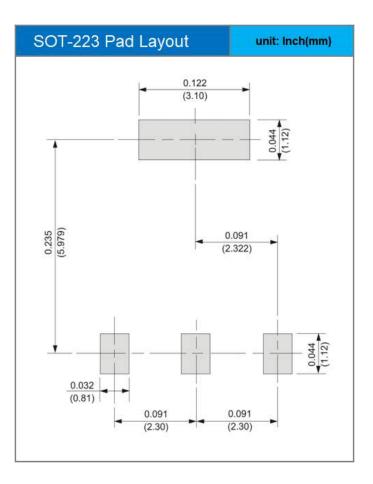




#### PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PBHV8110DW_R2_00001	SOT-223	2,500 pcs / 13" reel	8110DW	Halogen free

#### **MOUNTING PAD LAYOUT**





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