





# PBHV9110DA

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
<b>OFF Characteristics</b>						
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
<b>ON characteristics</b>						
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

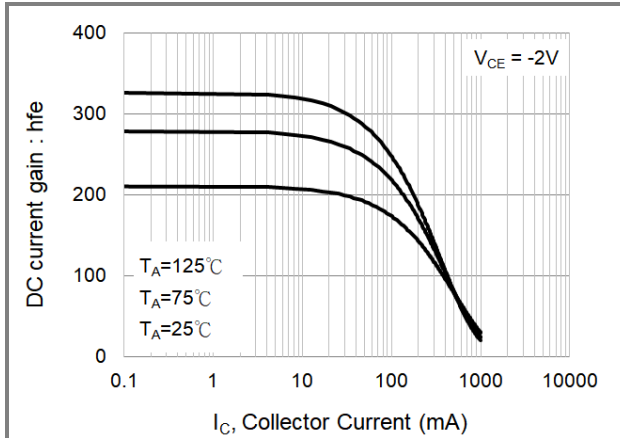


Fig.1 DC Current Gain

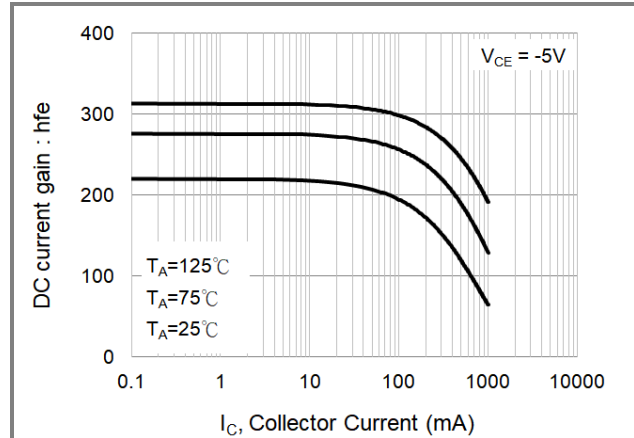


Fig.2 DC Current Gain

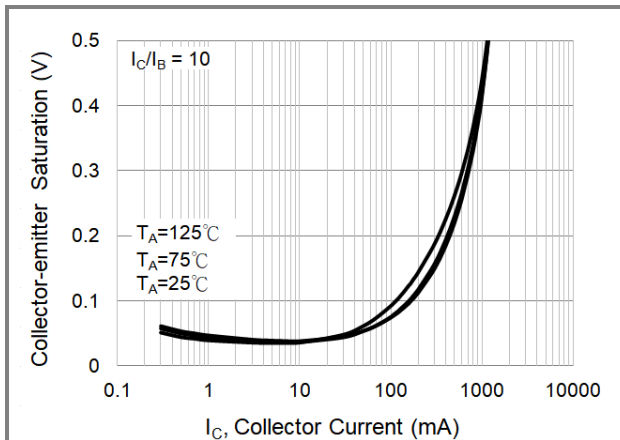


Fig.3 Collector-Emitter Saturation Voltage

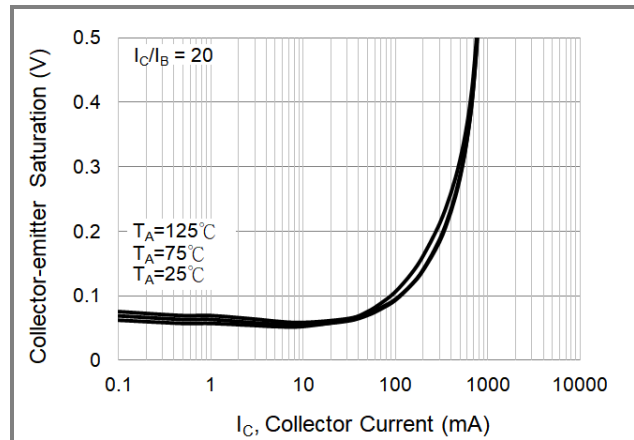


Fig.4 Collector-Emitter Saturation Voltage

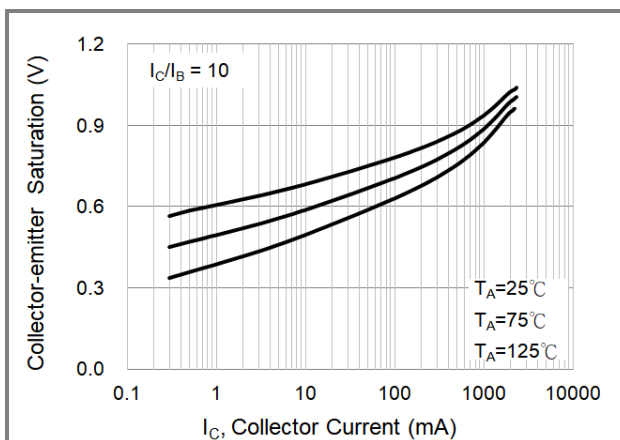


Fig.5 Base-Emitter Saturation Voltage

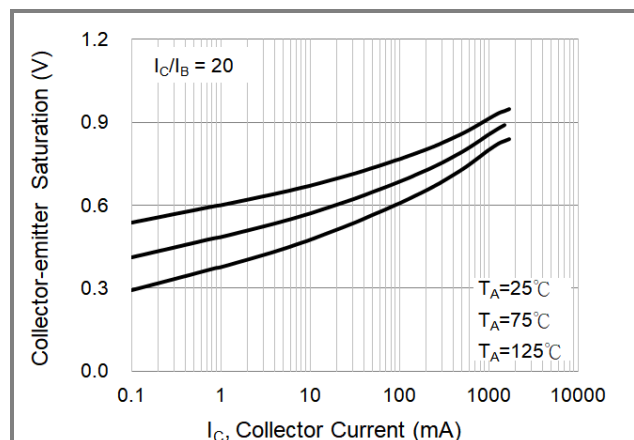
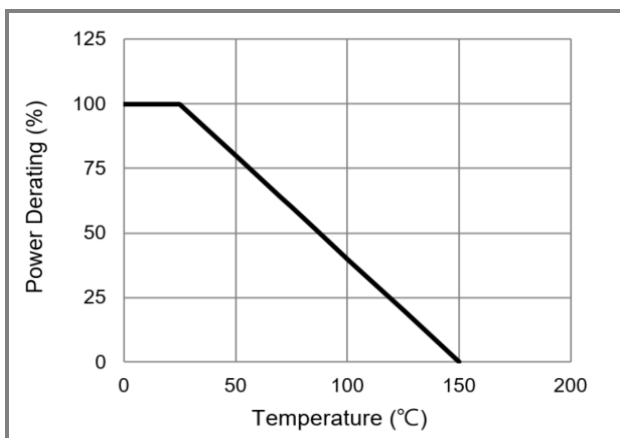
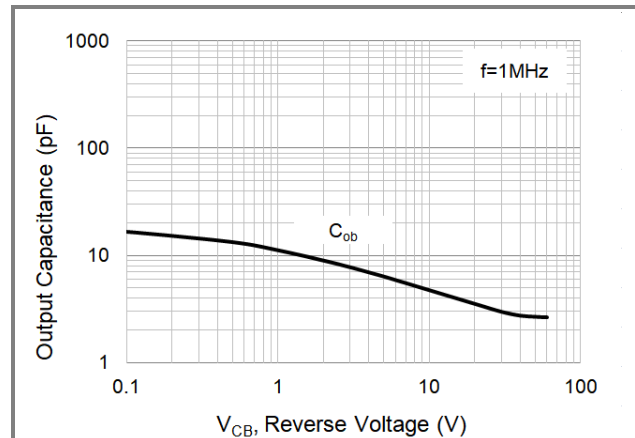
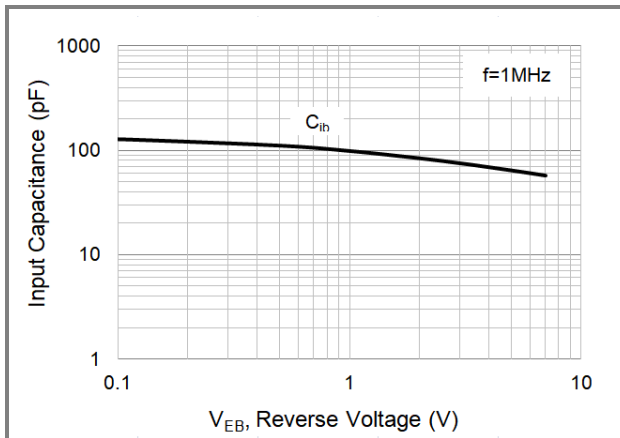
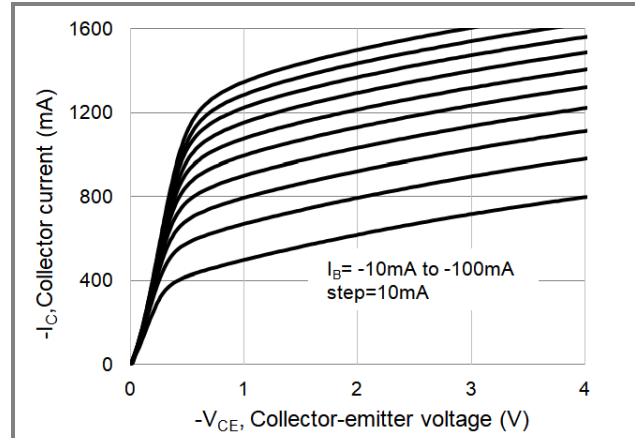
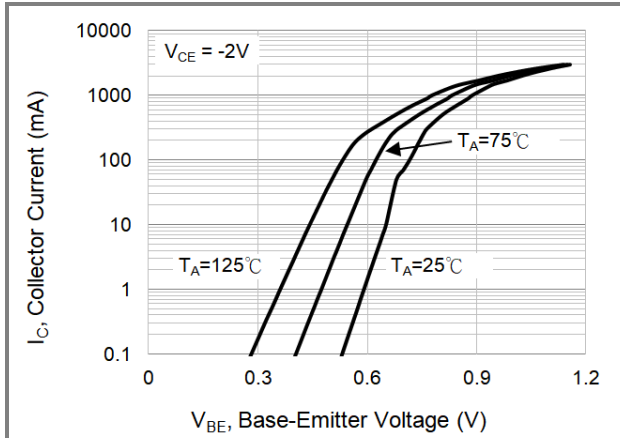


Fig.6 Base-Emitter Saturation Voltage

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## TYPICAL CHARACTERISTIC CURVES



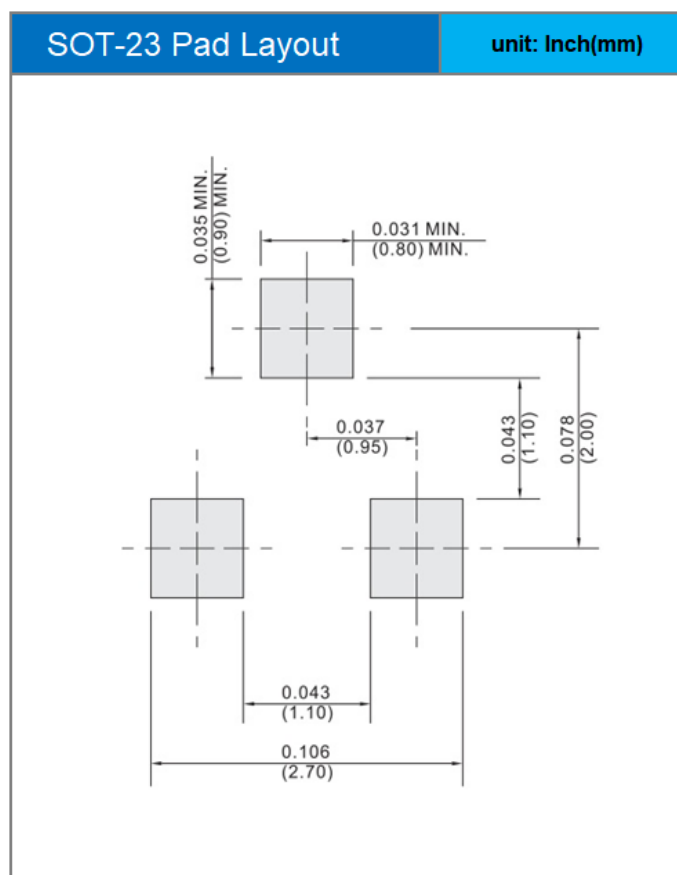


# PBHV9110DA

## 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**

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