

PBHV8110DA

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 = 500mA	100	-	300	
		V _{CE} = 5V, I _C = 1A	40	-	-	
Collector-Emitter Saturation Voltage (Note1)	V _{CE(SAT)}	I _C = 0.1A, I _B = 10mA	-	38	120	mV
		I _C = 0.5A, I _B = 50mA	-	117	350	
		I _C = 1A, I _B = 0.1A	-	220	450	
Base-Emitter Saturation voltage (Note1)	V _{BE(SAT)}	I _C = 0.1A, I _B = 10mA	-	-	1.0	V
		I _C = 0.5A, I _B = 50mA	-	-	1.1	
Transition Frequency	f _T	V _{CE} = 5V, I _E = -50mA	100	-	-	MHz
Collector Output Capacitance	C _{OB}	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

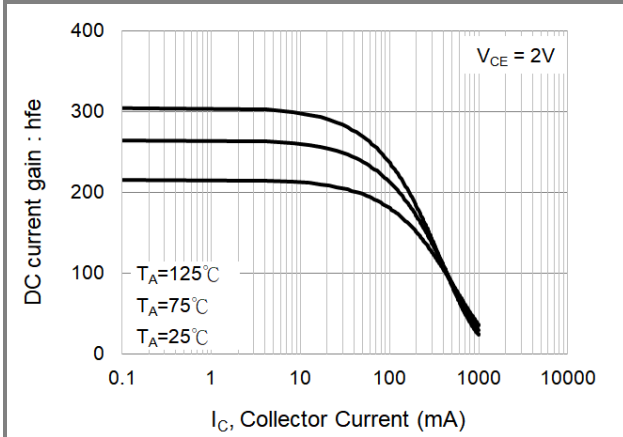


Fig.1 DC Current Gain

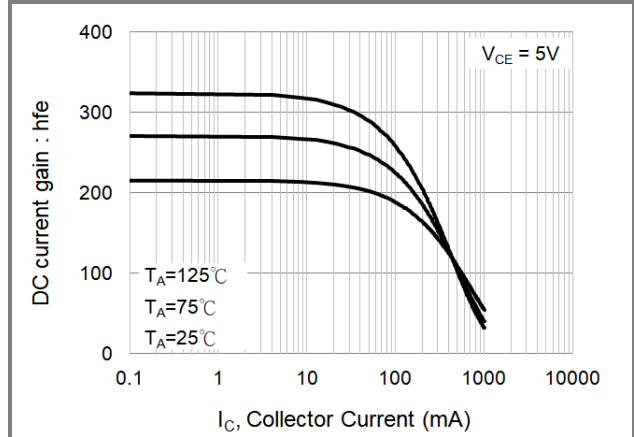


Fig.2 DC Current Gain

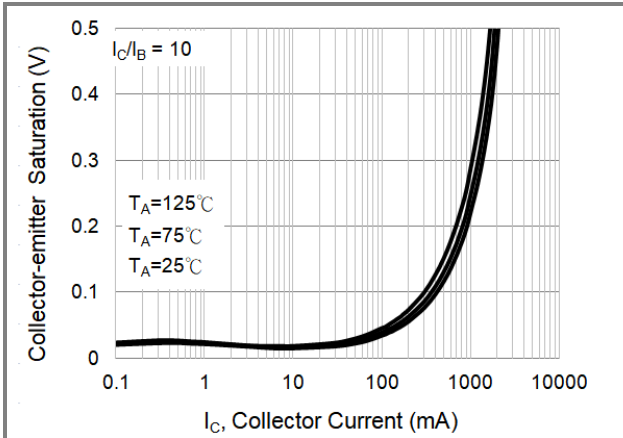


Fig.3 Collector-Emitter Saturation Voltage

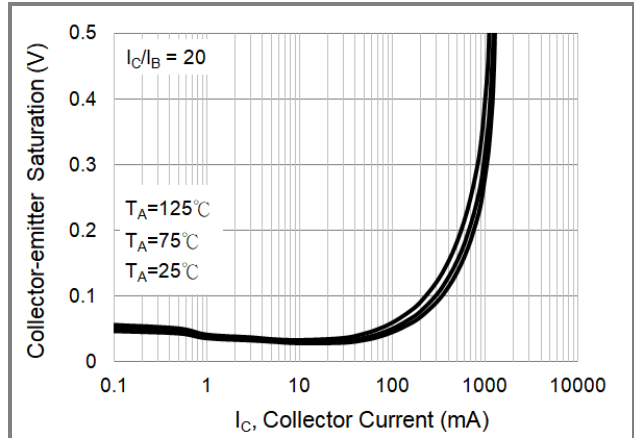


Fig.4 Collector-Emitter Saturation Voltage

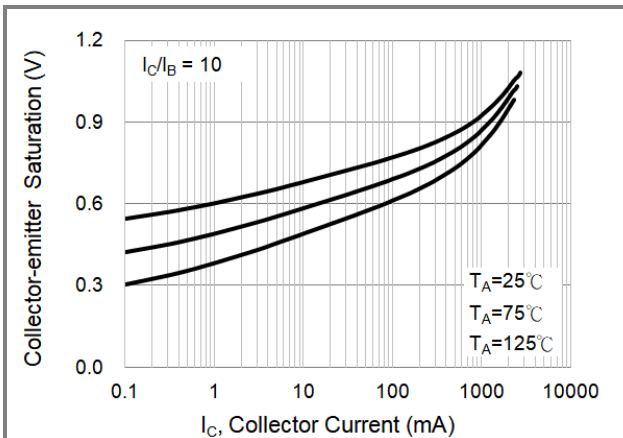


Fig.5 Base-Emitter Saturation Voltage

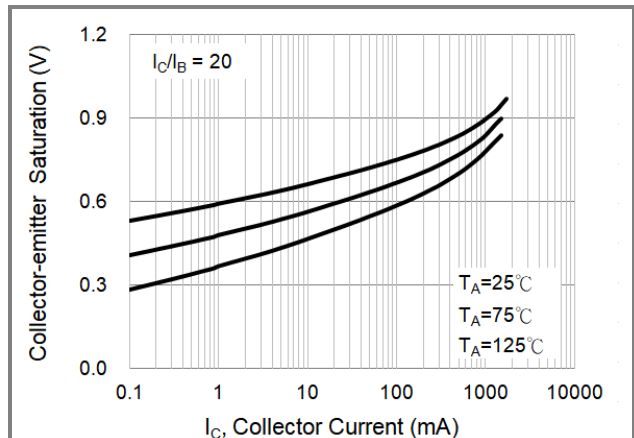


Fig.6 Base-Emitter Saturation Voltage

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TYPICAL CHARACTERISTIC CURVES

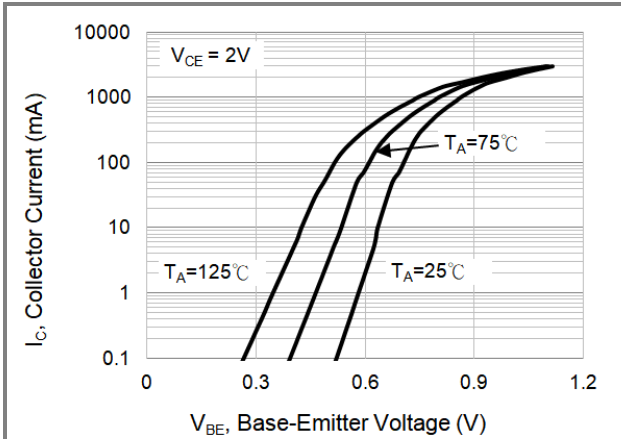


Fig.7 Base-Emitter Voltage

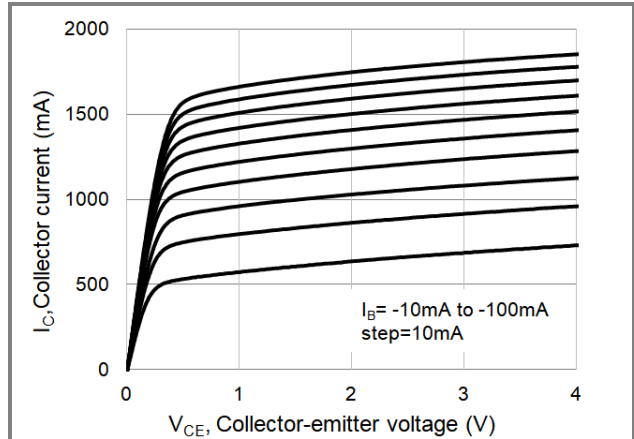


Fig.8 Collector Current

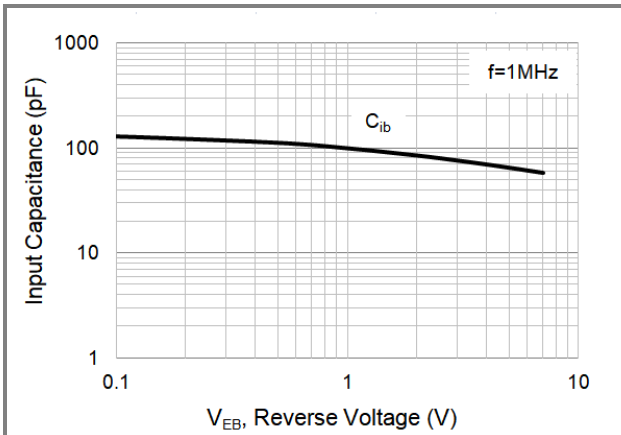


Fig.9 Input Capacitance

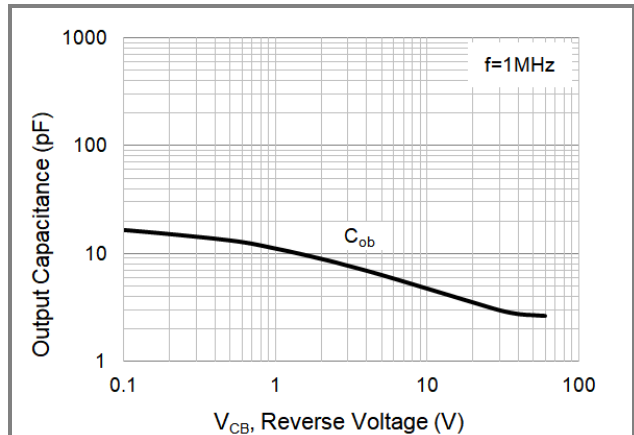


Fig.10 Output Capacitance

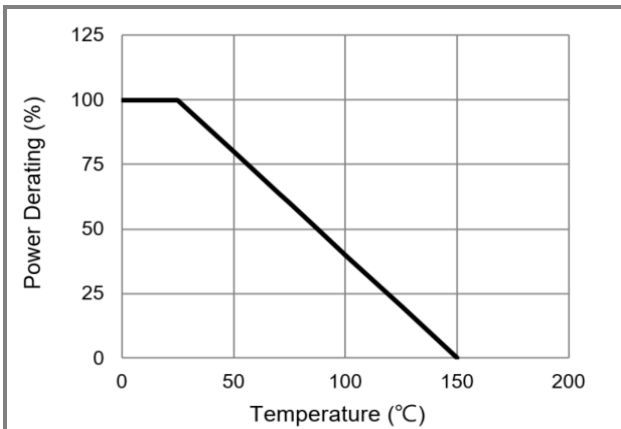


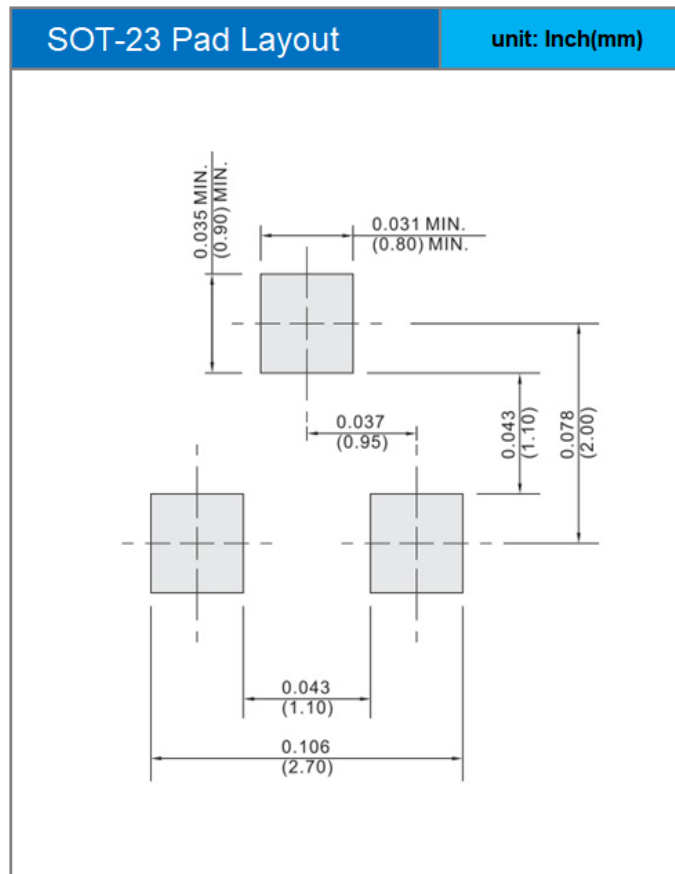
Fig.11 Power Derating Curve

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PBHV8110DA	SOT-23	3k pcs / 7" reel	811

Mounting Pad Layout



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