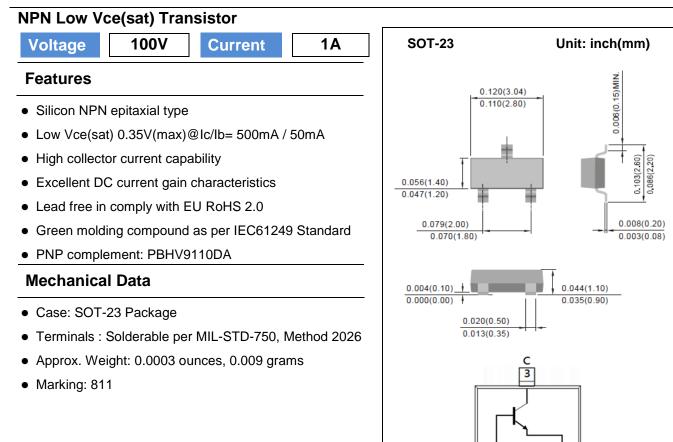
ΡΛΝ	JIT
	SEMI
	CONDUCTOR





Maximum Ratings and Thermal Characteristics ($T_A=25^{\circ}C$ 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)	Ι _c	1	А
Collector Current (Pulse)	I _{CP}	3	А
Power Dissipation	P _D	1.25	W
Junction Temperature	TJ	150	°C
Operating Junction and Storage Temperature Range	T_J,T_STG	-55~150	°C
Thermal Resistance from Junction to Ambient (Note)	$R_{ extsf{ heta}JA}$	100	°C/W
Note: Mounted on FR4 PCB at 1 inch square copper pad.	ΝθJA	100	

2

Е

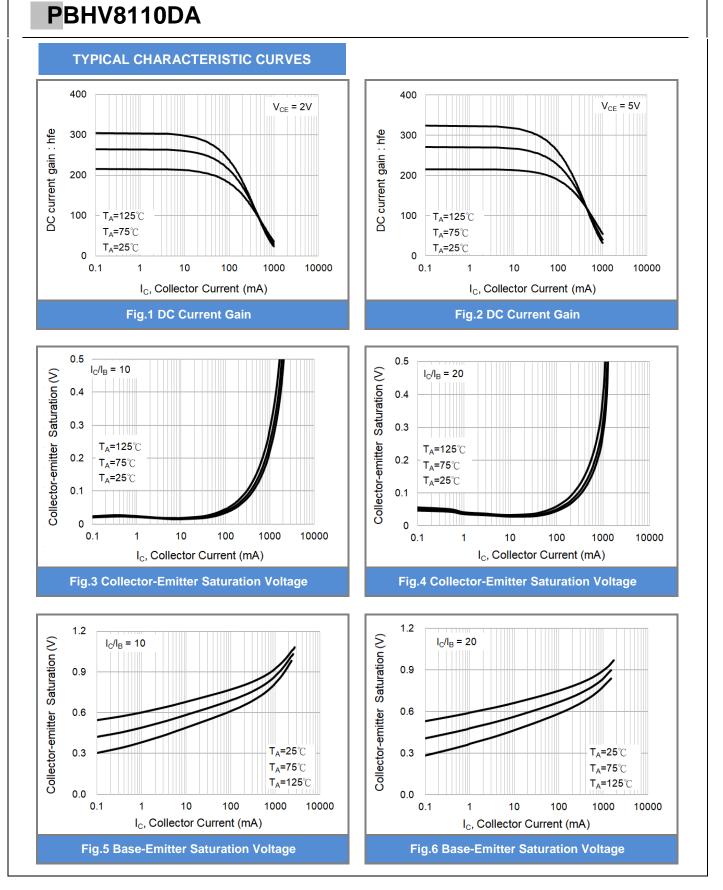
1 B



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	V _{BE(SAT)}	I _C = 0.1A, I _B = 10mA	-	-	1.0	
(Note1)		I _C = 0.5A, I _B = 50mA	-	-	1.1	V
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

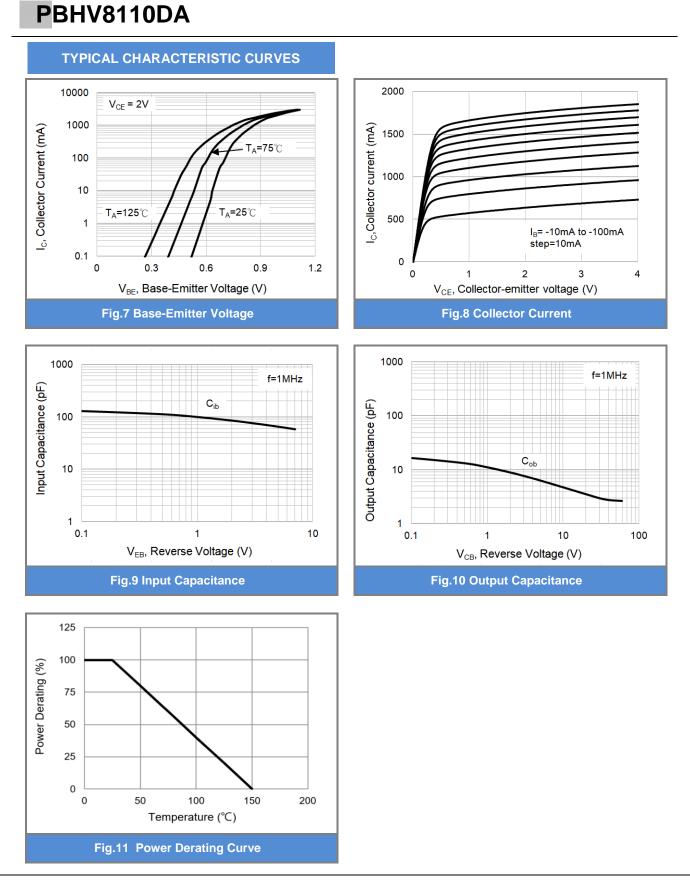
Note: 1. Pulse width<300us, Duty cycle<2%

August 16,2019-REV.00





August 16,2019-REV.00





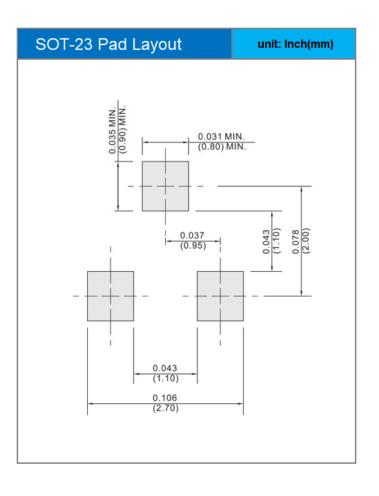




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
PBHV8110DA_R1_00001	SOT-23	3k pcs / 7" reel	811	Halogen free

MOUNTING PAD LAYOUT





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