



### PNP Low Vce(sat) Transistor

Voltage

-100V

Current

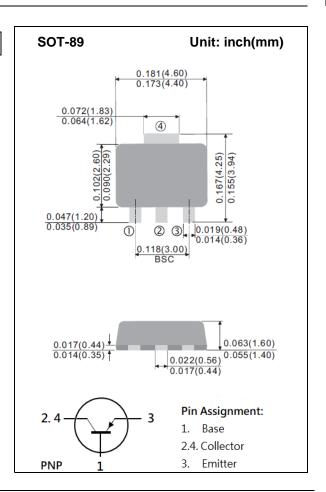
-1A

#### **Features**

- Silicon PNP epitaxial type
- Low Vce(sat) -0.35V(max)@Ic/lb= -500mA / -50mA
- High collector current capability
- Excellent DC current gain characteristics
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 Standard
- NPN complement: PBHV8110DH

#### **Mechanical Data**

- Case: SOT-89 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.002 ounces, 0.057 grams
- Marking: 911D



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

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V <sub>CBO</sub>	-120	V
Collector-Emitter Voltage	$V_{CEO}$	-100	V
Emitter-Base Voltage	V <sub>EBO</sub>	-6	V
Collector Current (DC)	I <sub>C</sub>	-1	А
Collector Current (Pulse)	I <sub>CP</sub>	-3	Α
Power Dissipation	P <sub>D</sub>	1.4	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)	$R_{\theta JA}$	89	°C/W

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





## **Electrical Characteristics** (T<sub>A</sub>=25 °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>	$I_{C}$ = -0.1mA, $I_{E}$ = 0A	-120	-	-	V	
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	$I_E$ = -0.1mA, $I_C$ = 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, $I_{C}$ = 0A	-	-	-500	nA	
ON characteristics							
DC Current Gain (Note1)	h <sub>FE</sub>	$V_{CE} = -2V, I_{C} = -150mA$	140	-	330	-	
		$V_{CE} = -5V, I_{C} = -500 \text{mA}$	100	-	300		
		$V_{CE}$ = -5V, $I_{C}$ = -1A	40	-	-		
Collector-Emitter Saturation Voltage (Note1)	V <sub>CE(SAT)</sub>	$I_{C}$ = -0.1A, $I_{B}$ = -10mA	-	-90	-150	mV	
		$I_{C}$ = -0.5A, $I_{B}$ = -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>	$I_{C}$ = -0.1A, $I_{B}$ = -10mA	-	-	-1.0	\ /	
(Note1)		$I_{C}$ = -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	$V_{CB}$ = -10V, $I_E$ = 0A, $f$ =1MHz	-	-	10	pF	

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





#### **TYPICAL CHARACTERISTIC CURVES**

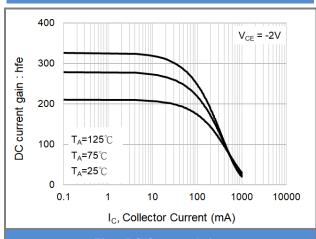


Fig.1 DC Current Gain

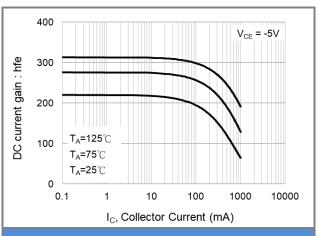


Fig.2 DC Current Gain

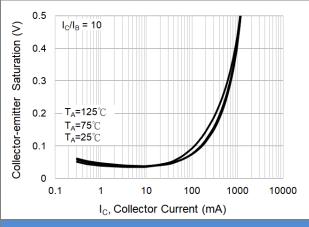


Fig.3 Collector-Emitter Saturation Voltage

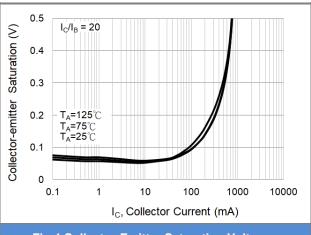
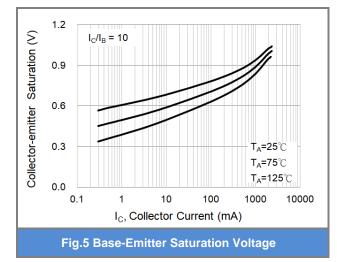
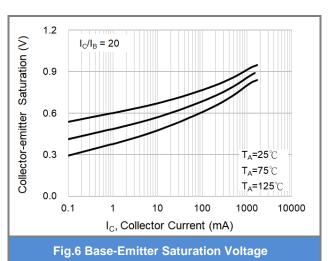


Fig.4 Collector-Emitter Saturation Voltage









#### **TYPICAL CHARACTERISTIC CURVES**

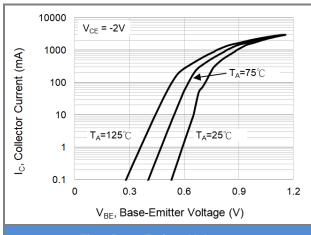
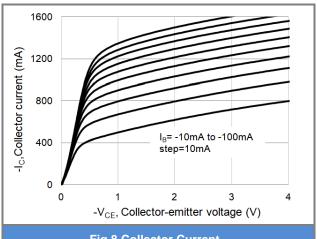
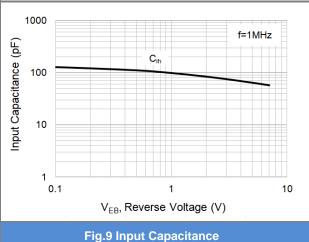
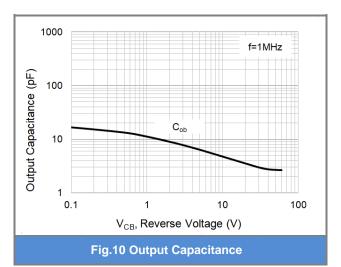


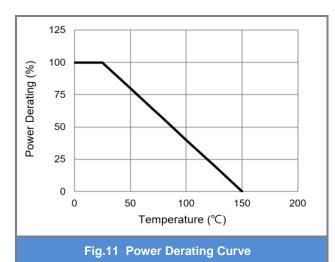
Fig.7 Base-Emitter Voltage



**Fig.8 Collector Current** 







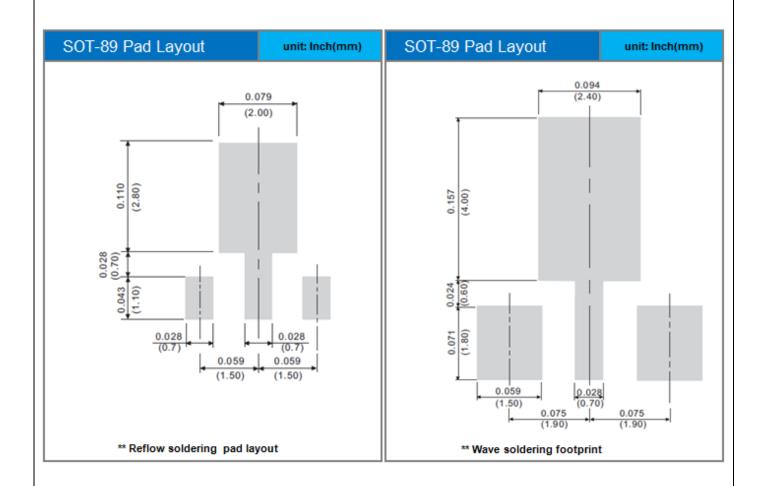




### PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
PBHV9110DH_R1_00001	SOT-89	1k pcs / 7" reel	911D	Halogen free

### **MOUNTING PAD LAYOUT**







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