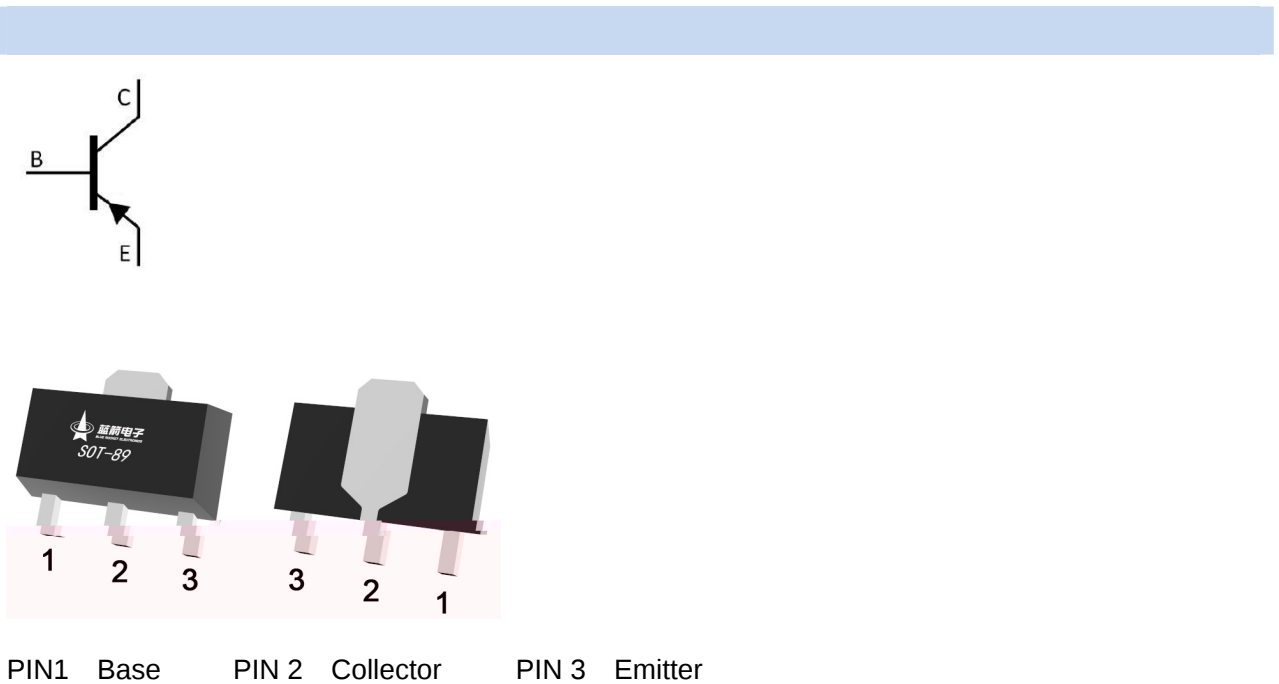


Silicon PNP transistor in a SOT-89 Plastic Package.

High breakdown voltage, good h_{FE} linearity, low $V_{CE(sat)}$, complements the BR2SD1898Q, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

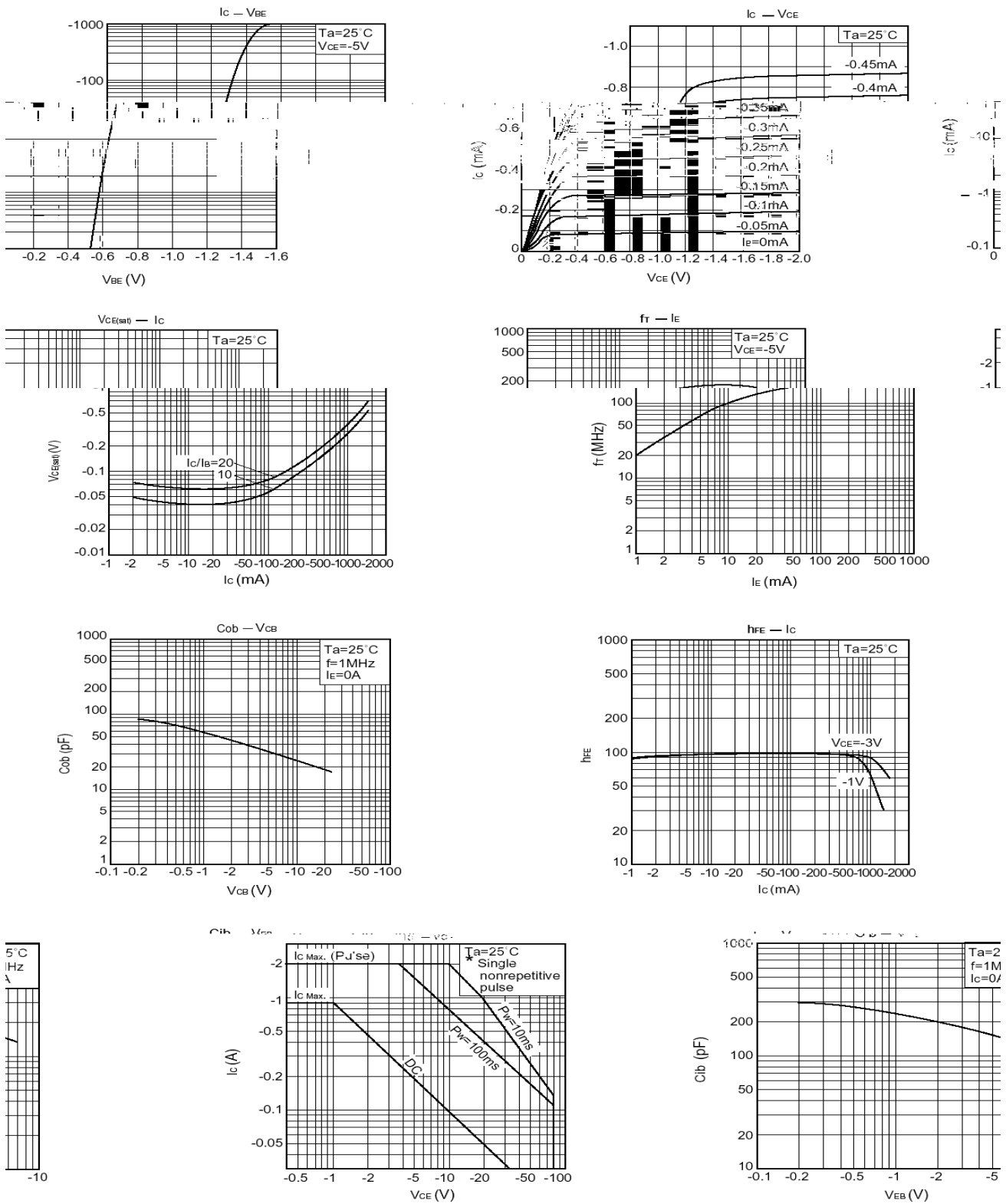
General power amplifier applications, Meet the stringent requirements of automotive applications.



Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-80	V
Collector to Emitter Voltage	V_{CEO}	-80	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current-Continuous	I_C	-1.0	A
Collector Current-Continuous(Pulse)	$*I_{CP}$	-2.0	A
Collector Power Dissipation	$**P_C$	0.5	W
	$*P_C$	2.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

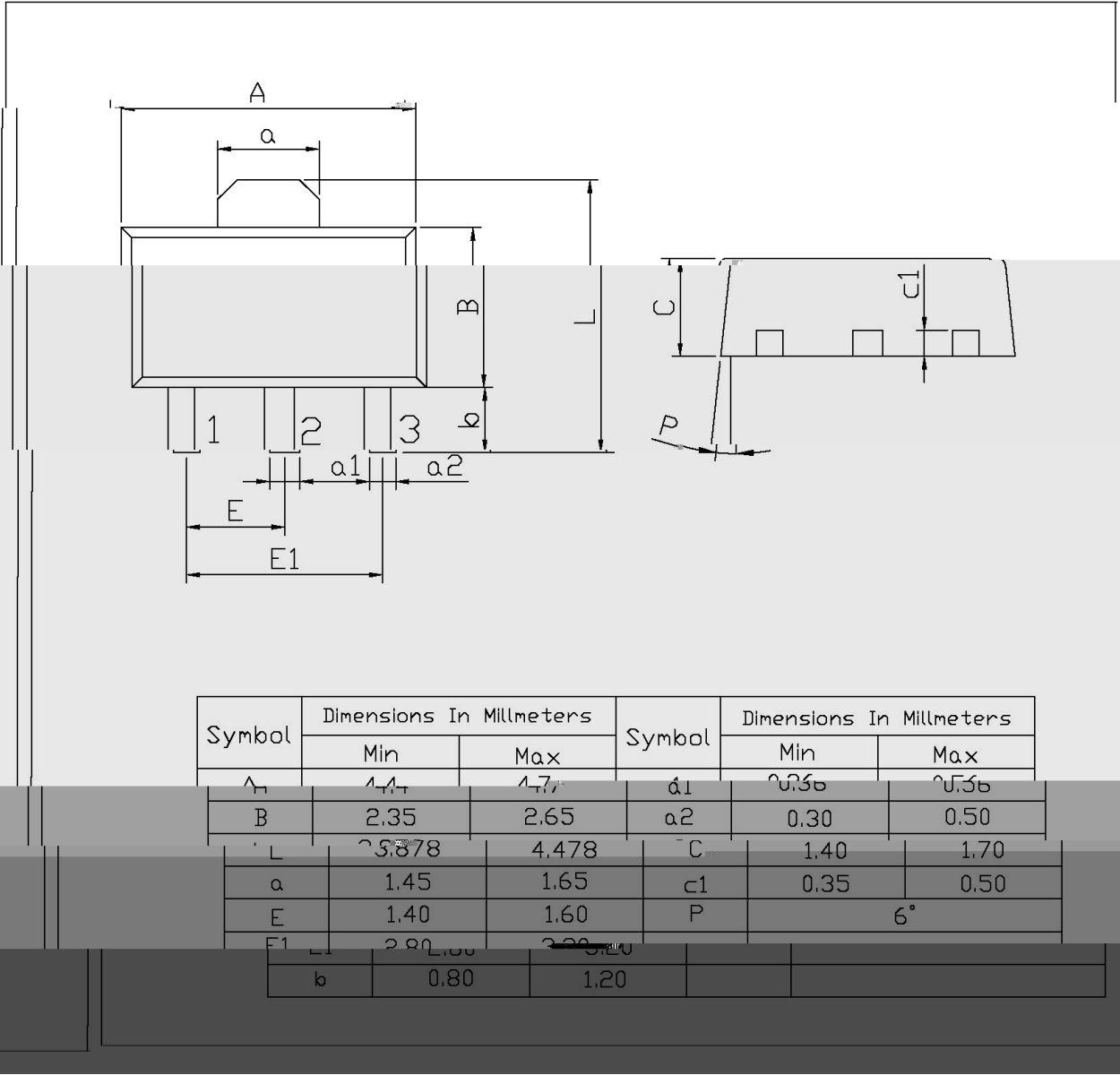
*Single pulse $P_w=100ms$ 100ms
 **mounted on $40 \times 40 \times 0.7mm$ ceramic board $40 \times 40 \times 0.7m$

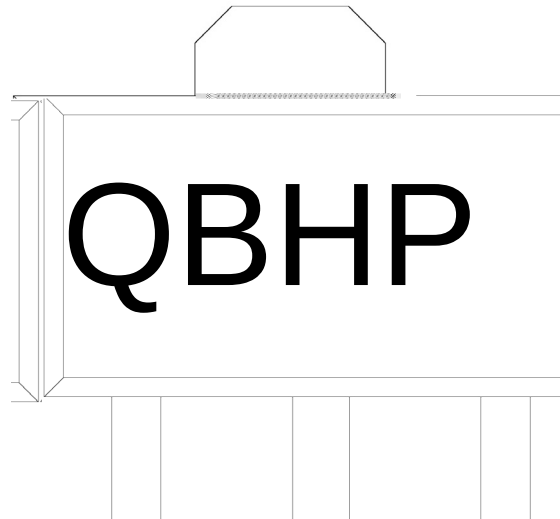
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-50\mu A$ $I_E=0$	-80			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1.0mA$ $I_B=0$	-80			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-50\mu A$ $I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-60V$ $I_E=0$			-1.0	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=-4.0V$ $I_C=0$			-1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=-3.0V$ $I_C=-0.1A$	82		390	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA$ $I_B=-50mA$			-0.4	V
Transition Frequency	f_T	$V_{CE}=-5.0V$ $I_C=-50mA$ $f=30MHz$		100		MHz
Collector Output Capacitance	C_{ob}	$V_{CE}=-10V$ $I_E=0$ $f=1.0MHz$		25		pF



SOT-89

单位: mm





BH

P h_{FE}

Note:

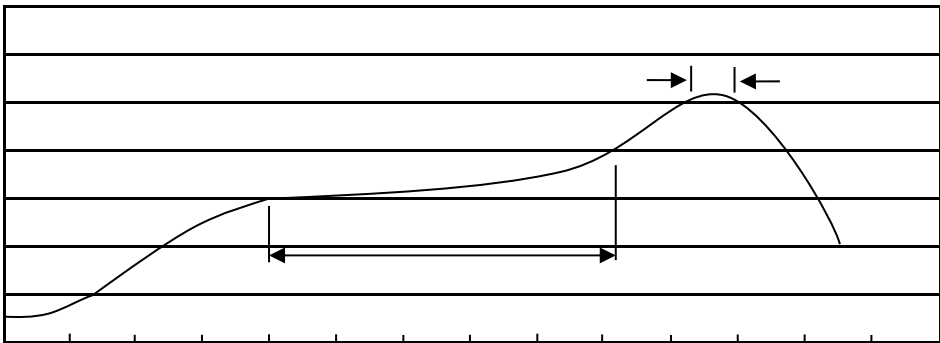
Q: Automobile halogen-free product Code

BH: Product Type

P h_{FE} Classifications Symbol

** Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 2

255 5

5 0.5sec;

2.Peak Temp.:255 5 , Duration:5 0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-89	1,000	7	7,000	6	42,000	7 ×12	180×120×180	390×385×205