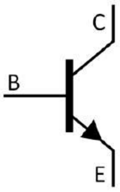
Rev.E Mar.-2016

SOT-323 NPN Silicon NPN transistor in a SOT-323 Plastic Package.

Low noise and high power gain.

low noise amplifier at VHF, UHF and CATV band applications.



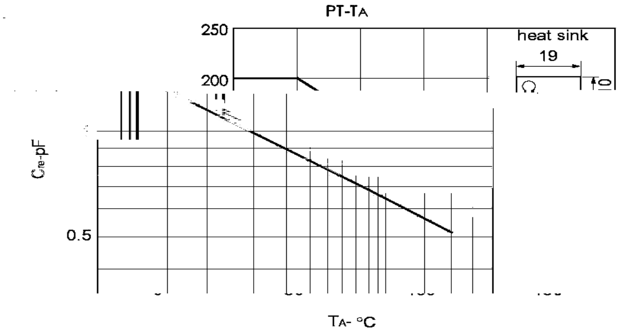
PIN1 Emitter PIN 2 Base PIN 3 Collector

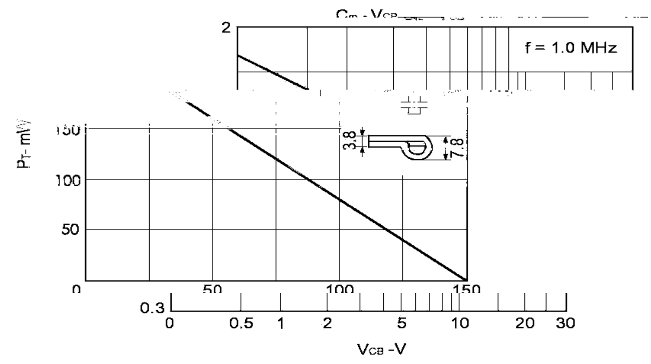
h_{FE} Classifications Symbol	Q	R	S	T
h_{FE} Range	50 100	80 160	125 250	200 330
Marking	HR23	HR24	HR25	HR26

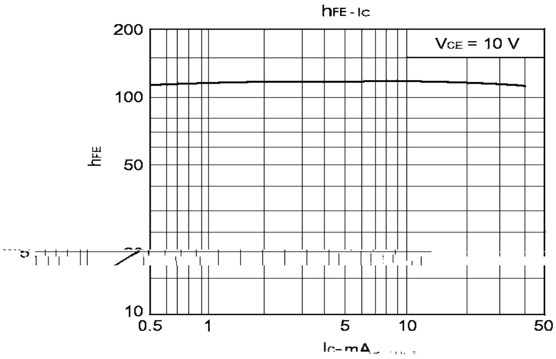
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	20	V
Collector to Emitter Voltage	V_{CEO}	12	V
Emitter to Base Voltage	V_{EBO}	3.0	V
Collector Current - Continuous	I_C	100	mA
Collector Power Dissipation	P_C	200	mW
[redacted]	T_j	150	
[redacted]	[redacted]	-55 150	

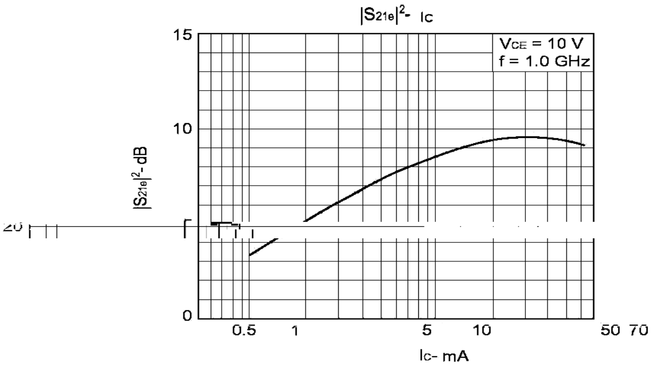
[redacted]

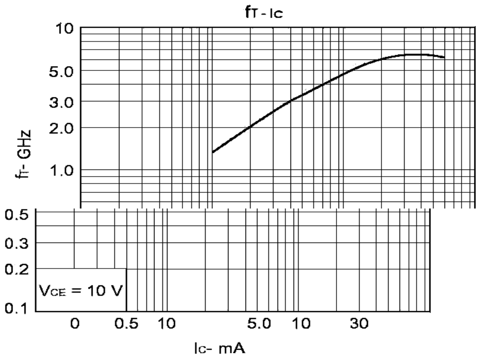
[illegible]

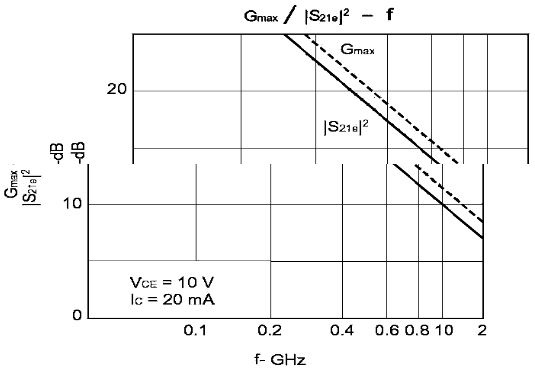

PT-TA
250
200
heat sink
19
Cre-pF
0.5
TA- °C

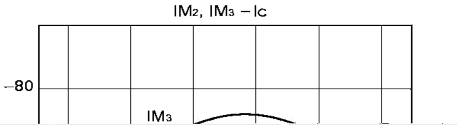

Cre - VCB
2
f = 1.0 MHz
PT- mW
150
100
50
0
50
100
150
3.8
7.8
0.3
0
0.5
1
2
5
10
20
30
VCB -V

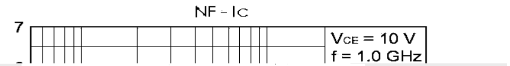

hFE - Ic
200
100
50
10
hFE
VCE = 10 V
0.5
1
5
10
50
Ic- mA


|S21e|2- Ic
15
10
0
VCE = 10 V
f = 1.0 GHz
|S21e|2-dB
0.5
1
5
10
50
70
Ic- mA


fT - Ic
10
5.0
3.0
2.0
1.0
0.5
0.3
0.2
0.1
fT- GHz
VCE = 10 V
0
0.5
10
5.0
10
30
Ic- mA


Gmax / |S21e|2 – f
Gmax
|S21e|2
20
10
0
Gmax -dB
|S21e|2 -dB
VCE = 10 V
Ic = 20 mA
0.1
0.2
0.4
0.6
0.8
10
2
f- GHz


IM2, IM3 – Ic
–80
IM3


NF - Ic
7
VCE = 10 V
f = 1.0 GHz

[redacted]

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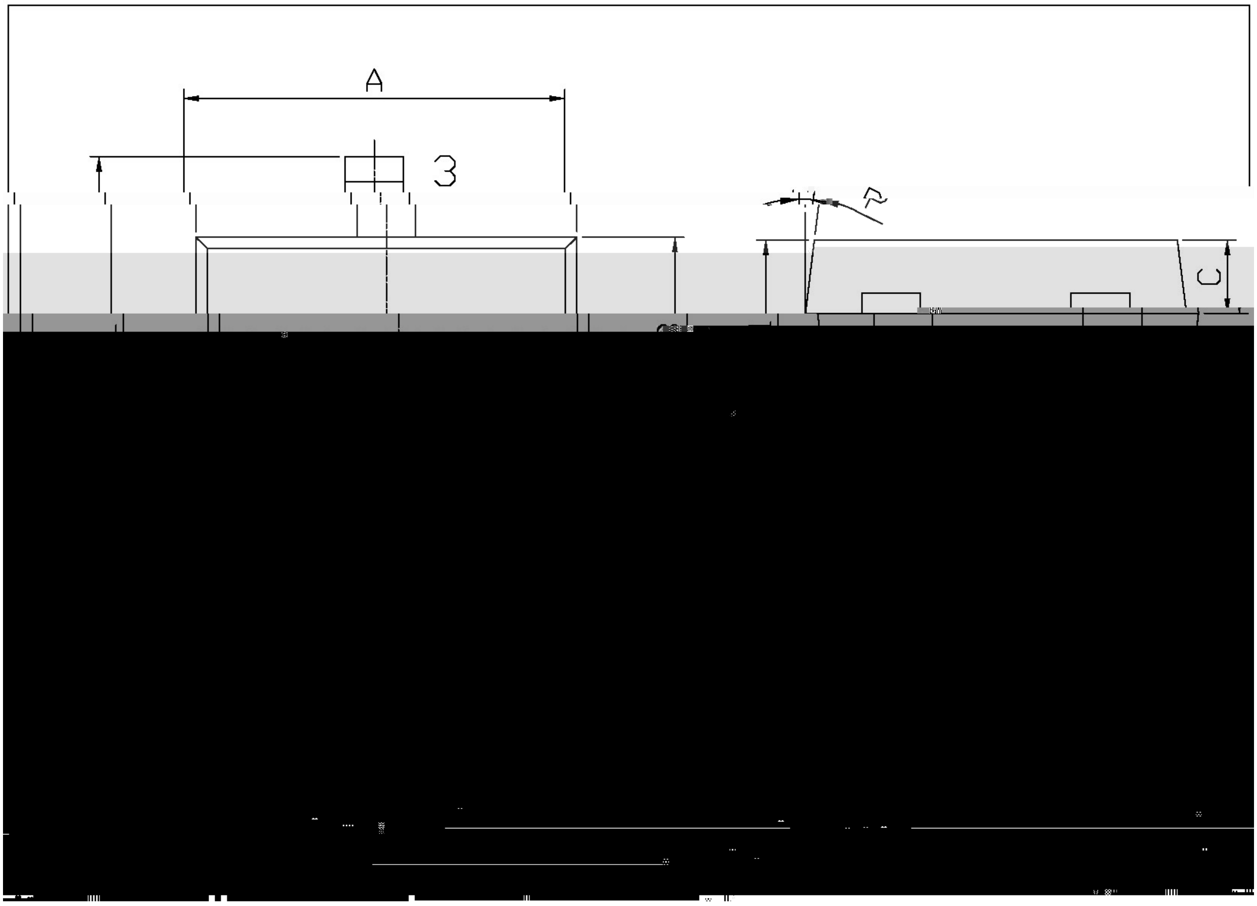
SOT-323

单位：mm



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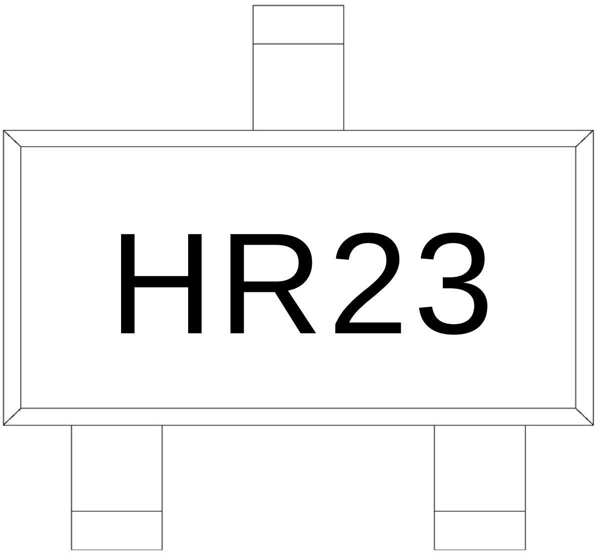

H

R23

Note:

H: Company Code.

R23: Product Type.

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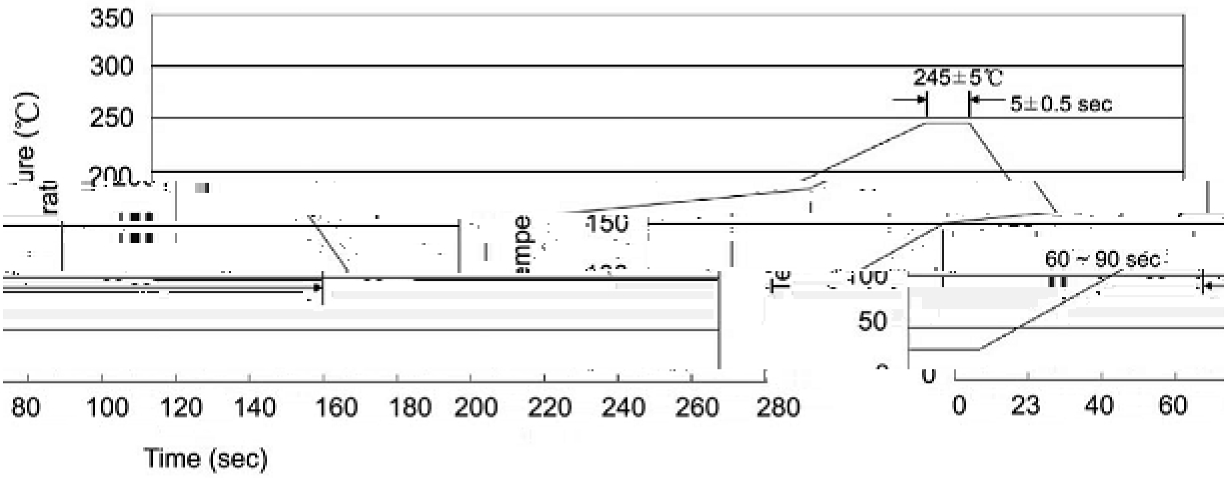

Note:

1 25 150 60 90sec;
2 245±5 5±0.5sec;
3 2 10 /sec.

1.Preheating:25~150 , Time:60~90sec.
2.Peak Temp.:245±5 , Duration:5±0.5sec.
3. Cooling Speed: 2~10 /sec.

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260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

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/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-323	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

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