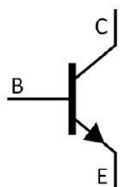


SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

BCW68
 Complementary to BCW68.

Medium power amplifier applications.



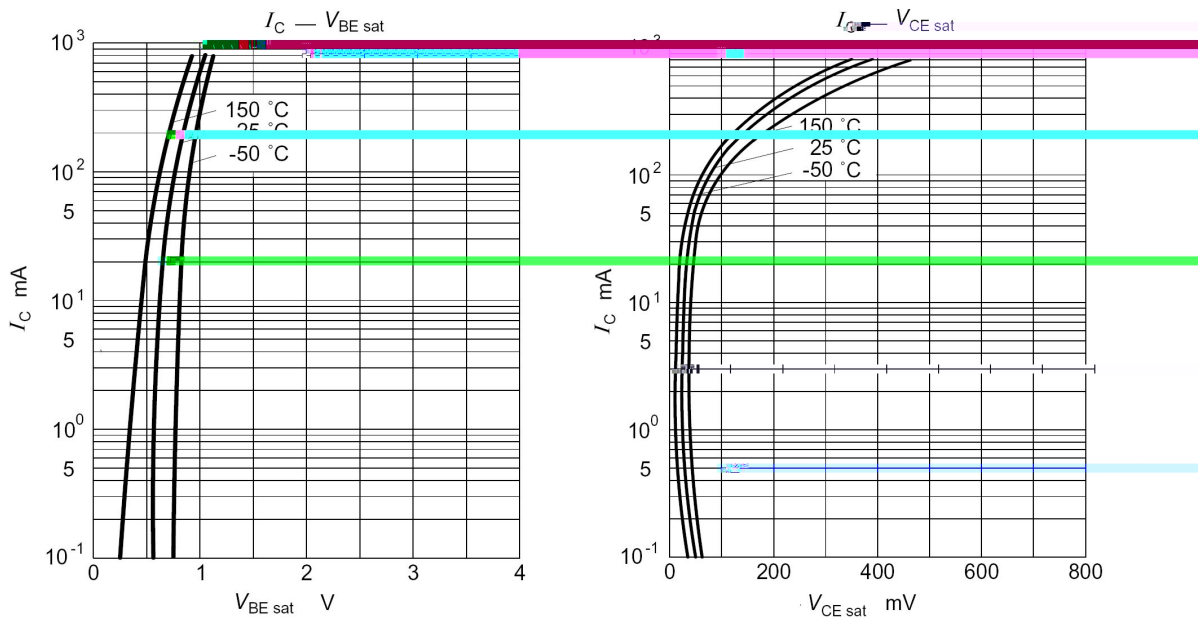
PIN1 Base PIN 2 Emitter PIN 3 Collector

h_{FE} Classifications Symbol	F	G	H
h_{FE} Range	100~250	160~400	250~630
Marking	HDAO	HDAY	HDAG

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	75	V
Collector to Emitter Voltage	V_{CEO}	45	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current(DC)	I_C	800	mA
Peak Collector Current	I_{CM}	1.0	A
Peak Base Current	I_B	100	mA
Collector Power Dissipation	P_C	330	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55~150	

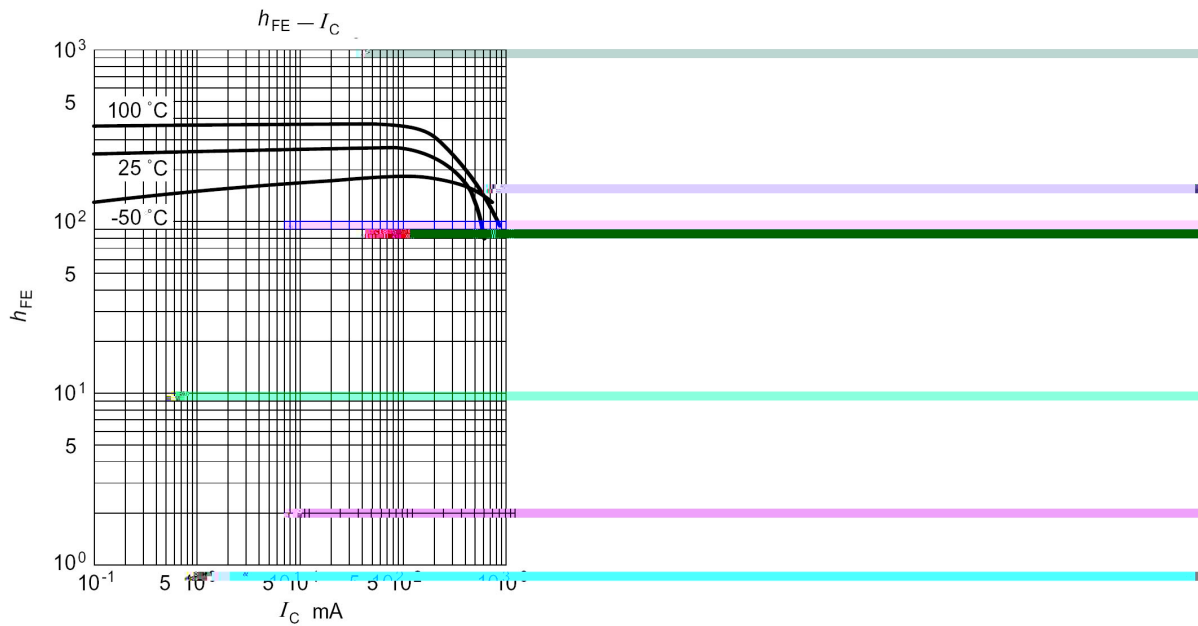
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=10\mu A$	75			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_{CEO}=10mA$	45			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_{EBO}=10\mu A$	5.0			V
Collector-Emitter Cut-off Current	I_{CES}	$V_{CB}=45V$			0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=4.0V$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=100mA$	100		630	
	$h_{FE(2)}$	$V_{CE}=1.0V$ $I_C=10mA$	75			
	$h_{FE(3)}$	$V_{CE}=2.0V$ $I_C=500mA$	35			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=100mA$ $I_B=10mA$			0.3	V
	$V_{CE(sat)(2)}$	$I_C=500mA$ $I_B=50mA$			0.7	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=500mA$ $I_B=50mA$			2.0	V

BE



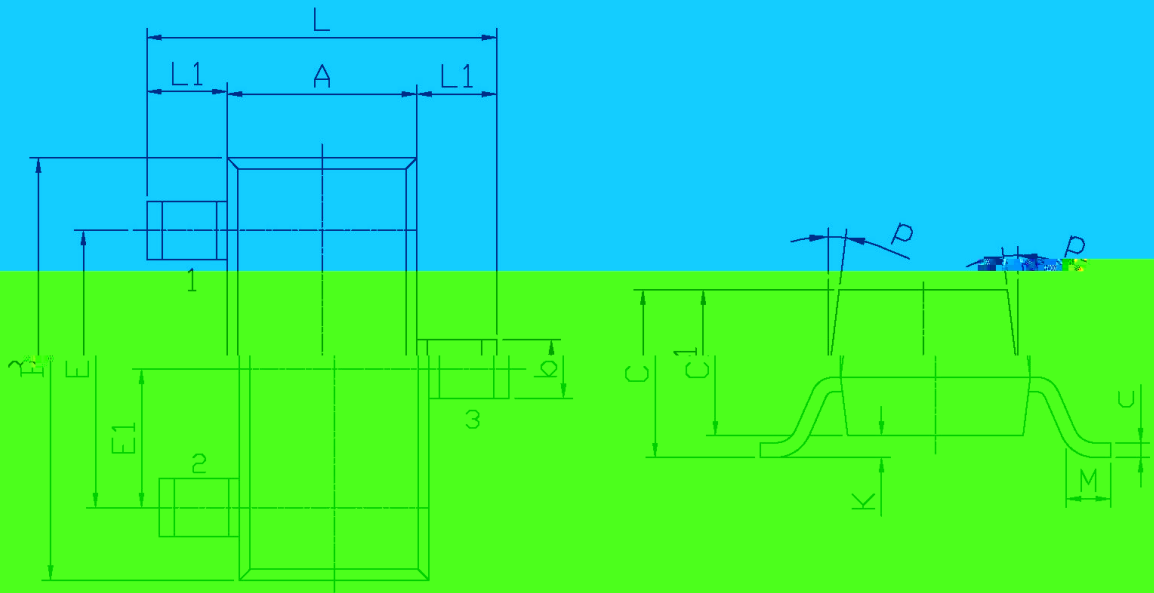
DC current gain $h_{FE} = f(I_C)$

$V_{CE} = 1V$

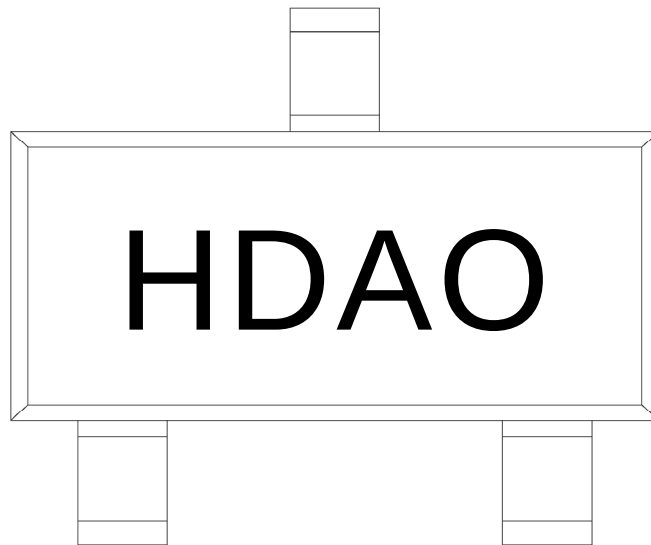


SOT-23

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
L	2.2	2.7	C	1.30Max	
L1	0.45	0.65	C1	0.90	1.20
A	1.15	1.50	c	0.05	0.20
R	2.70	2.60	K	0.10	0.10
E	1.70	2.10	M	0.20Min	
E1	0.85	1.05	P	7°	
E1	0.35	0.55			



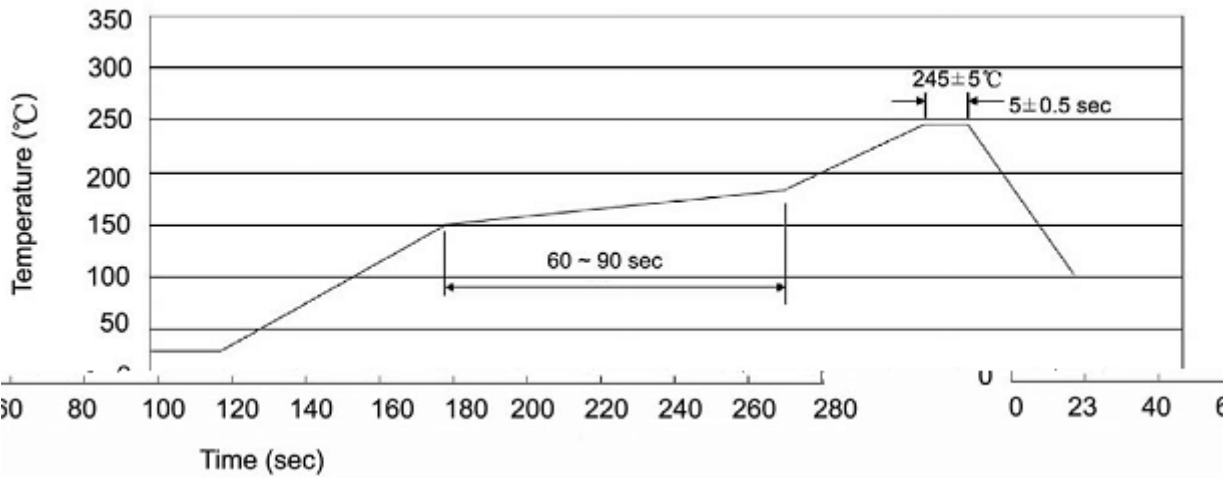
H

DAO

Note:

H: Company Code

DAO: Product Type Code



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±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)		
						"		