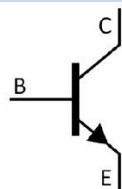


SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

Large current capacity and wide ASO.

Small signal general purpose amplifier applications.

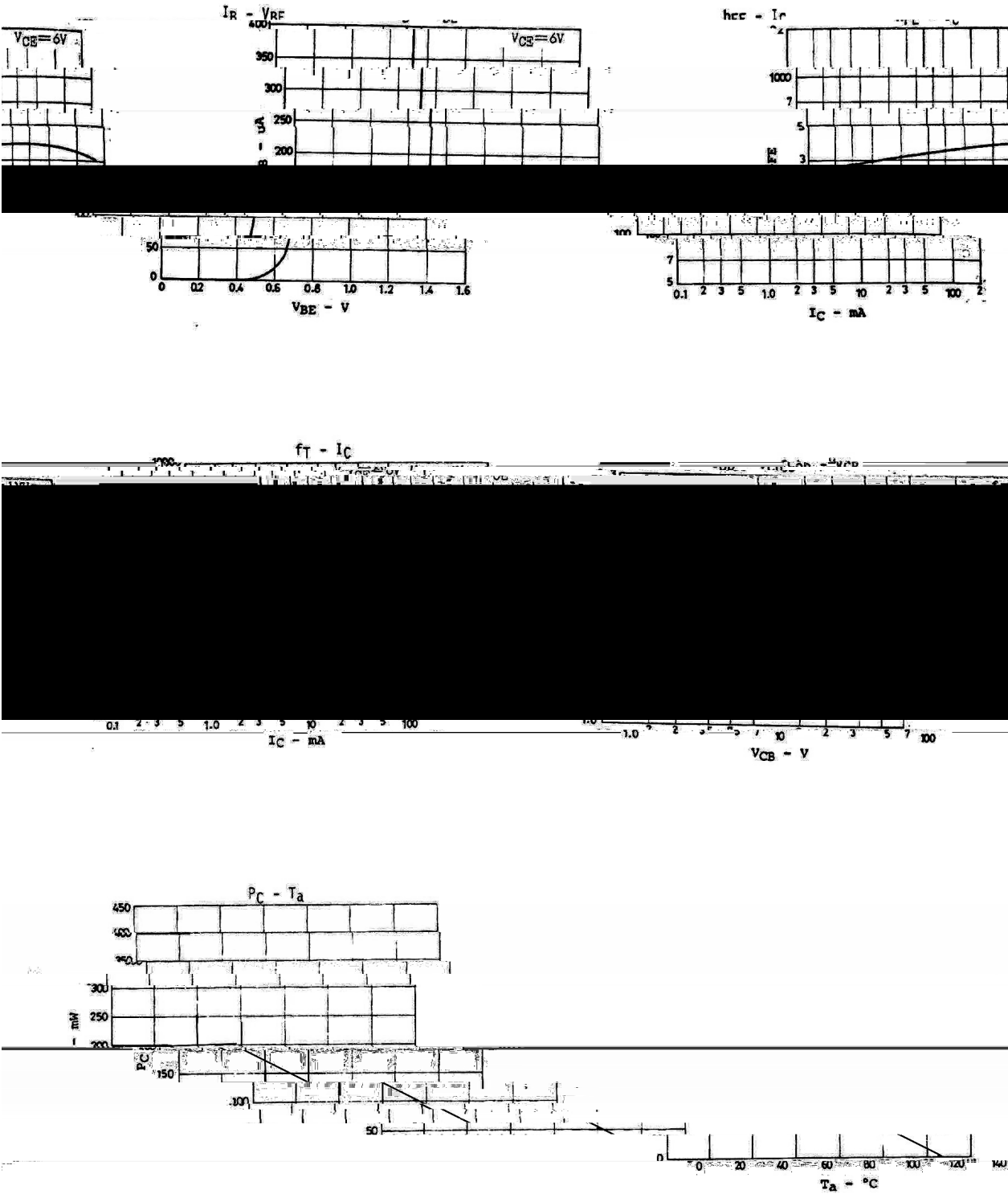


PIN1 Base PIN 2 Emitter PIN 3 Collector

h_{FE} Classifications Symbol	D	E	F	G	H
h_{FE} Range	60 120	100 200	160 320	280 560	480 960
Marking	H53D	H53E	H53F	H53G	H53H

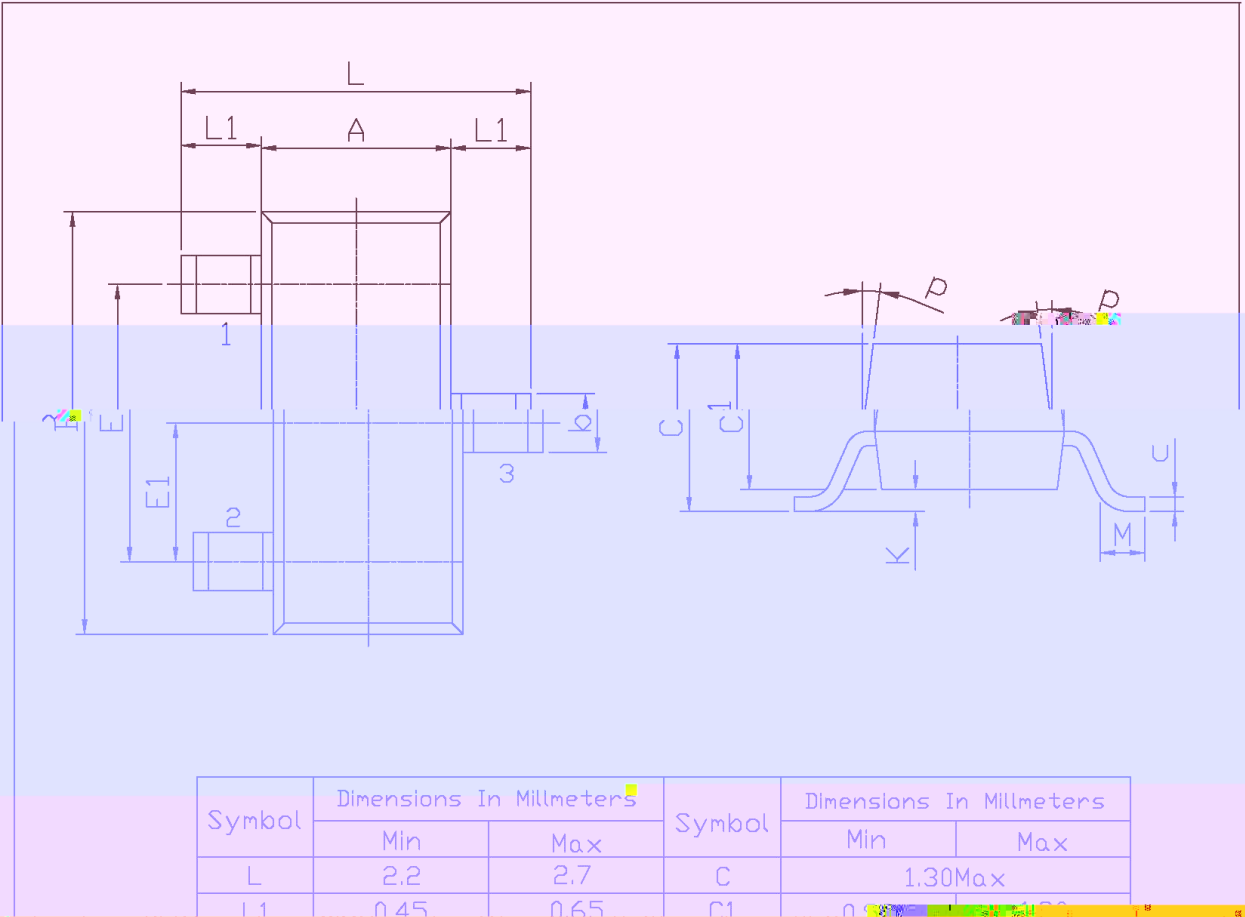
Parameter		Symbol	Rating	Unit
Collector to Base Voltage	2SC536M 2SC536KM	V_{CBO}	40 55	V
Collector to Emitter Voltage	2SC536M 2SC536KM	V_{CEO}	30 50	V
Emitter to Base Voltage		V_{EBO}	5.0	V
Collector Current		I_C	100	mA
Collector Current(pulse)		I_{CP}	300	mA
Collector Power Dissipation		P_C	250	mW
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=35V$ $I_E=0$			1.0	A
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=4.0V$ $I_C=0$			1.0	A
DC Current Gain	h_{FE}	$V_{CE}=6.0V$ $I_C=1.0mA$	60		960	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=50mA$ $I_B=5.0mA$			0.5	V
Transition Frequency	f_T	$V_{CE}=6.0V$ $I_C=1.0mA$		100		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=6.0V$ $f=1.0MHz$ $I_E=0$		3.5		pF
Collector- Base Time Constant	$C_{C-rbb'}$	$V_{CB}=6.0V$ $f=31.9MHz$ $I_C=1.0mA$		250		pS

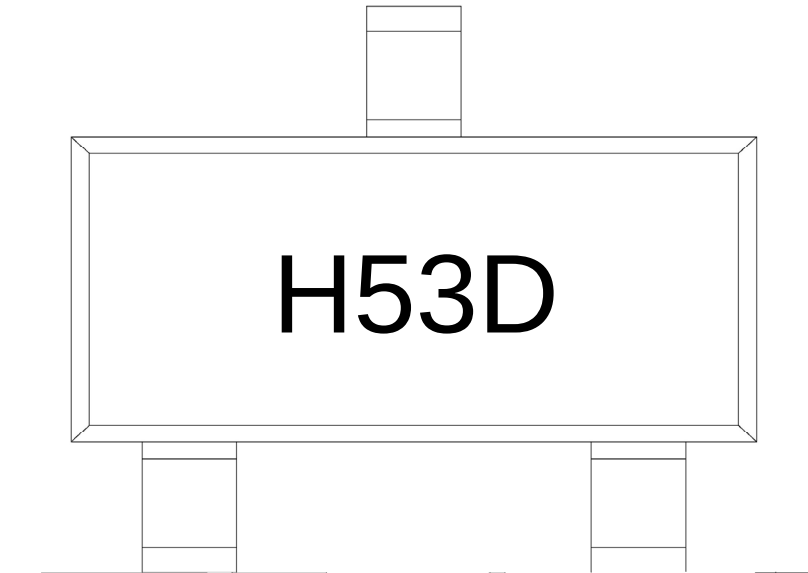


SOT-23

单位: mm



Symbol			Dimensions In Millimeters			Symbol			Dimensions In Millimeters		
			Min		Max				Min		Max
L			2.2		2.7	C			1.30Max		
A	1.15	1.50	c	0.05	0.20						
B	2.70	3.40	K	0	0.10						
E	1.70	2.10	M	0.20MIN							
E1	0.85	1.05	P	7°							
b	0.35	0.55									



H

53

D h_{FE}

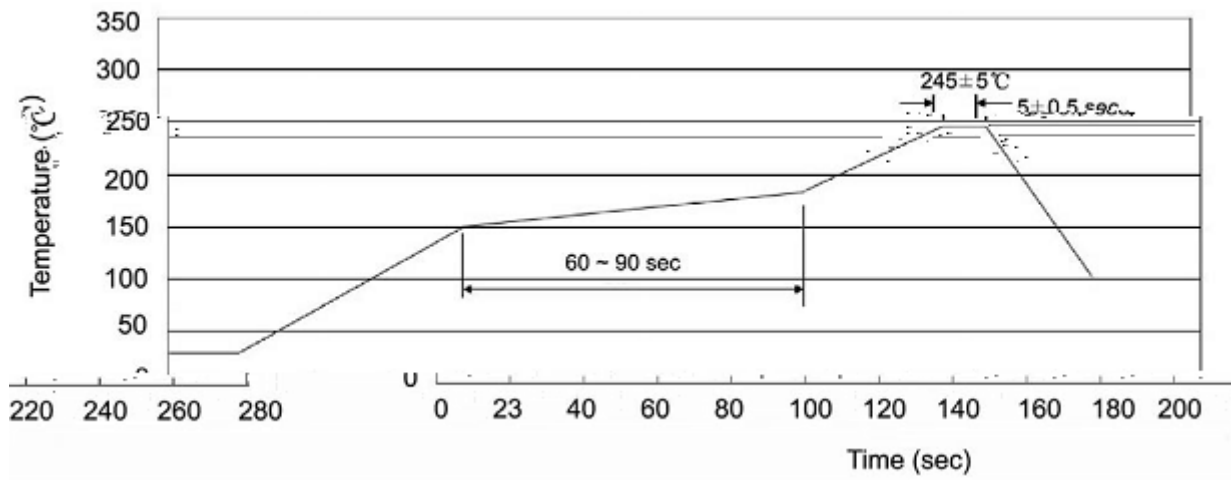
Note:

H Company Code

53 Product Type Code

D h_{FE} Classifications Symbol Code

Temperature Profile for IR Reflow Soldering(Pb-Free)



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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱