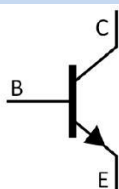


SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

h_{FE} , 2SB624
 High h_{FE} , complementary pair with 2SB624.

Audio frequency amplifier application.

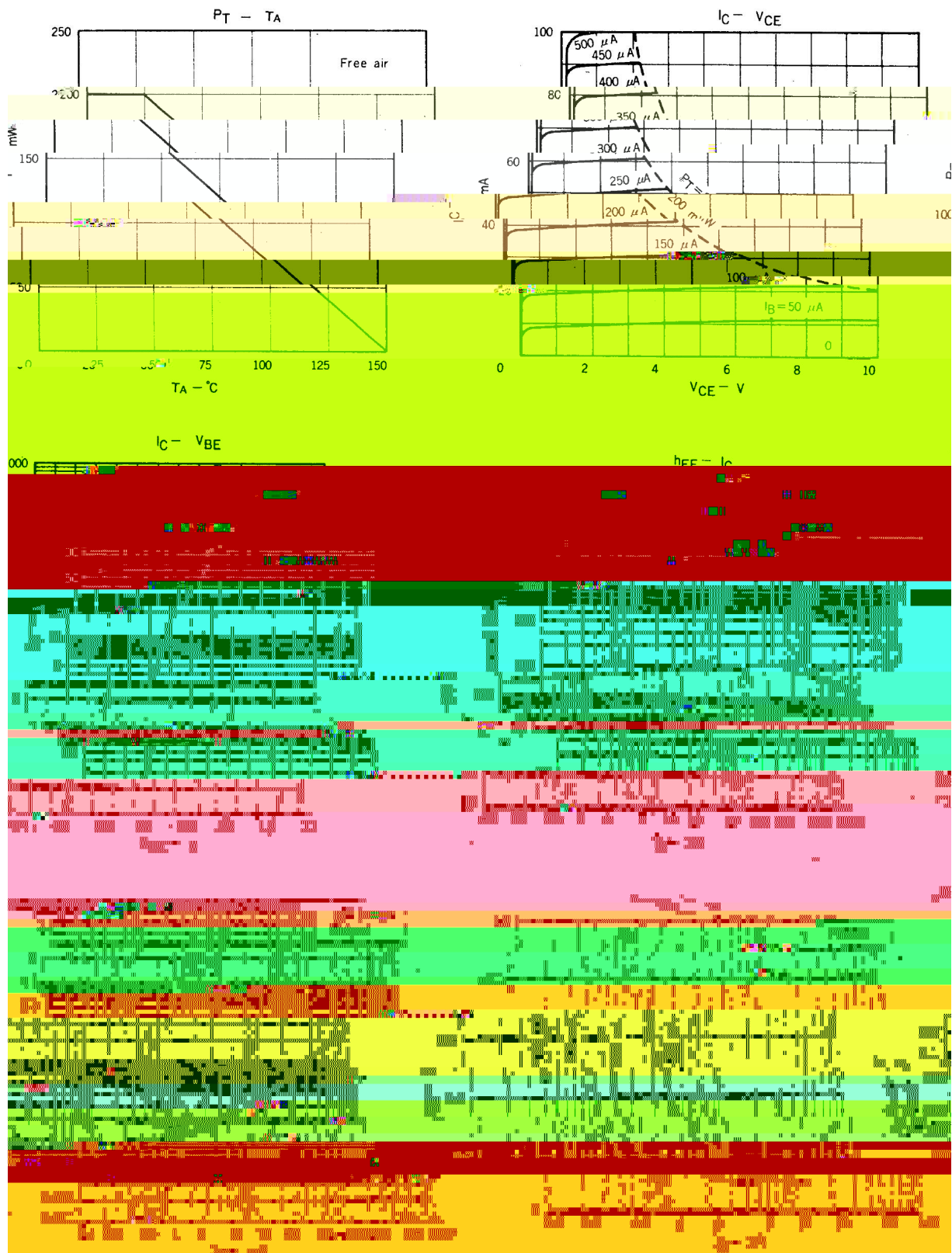


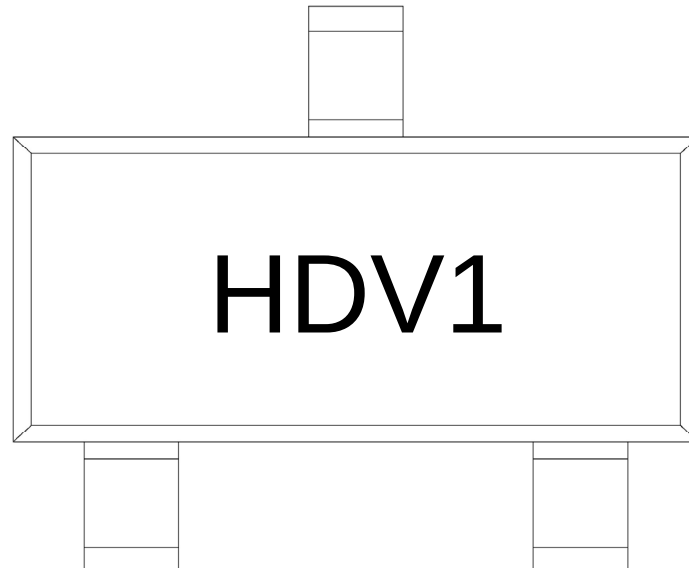
PIN1 Base PIN 2 Emitter PIN 3 Collector

h_{FE} Classifications Symbol	1	2	3	4	5
h_{FE} Range	110~180	135~220	170~270	200~320	250~400
Marking	HDV1	HDV2	HDV3	HDV4	HDV5

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	30	V
Collector to Emitter Voltage	V_{CEO}	25	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current	I_C	700	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=30V$ $I_E=0$			0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=100mA$	110	200	400	
	$h_{FE(2)}$	$V_{CE}=1.0V$ $I_C=700mA$	50			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=700mA$ $I_B=70mA$		0.22	0.60	V
Base to Emitter Saturation Voltage	V_{BE}	$V_{CE}=6.0V$ $I_C=10mA$	0.60	0.64	0.70	V
Transition Frequency	f_T	$V_{CE}=6.0V$ $I_C=10mA$		170		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=6.0V$ $I_E=0$ $f=10MHz$		12		pF





H

DV

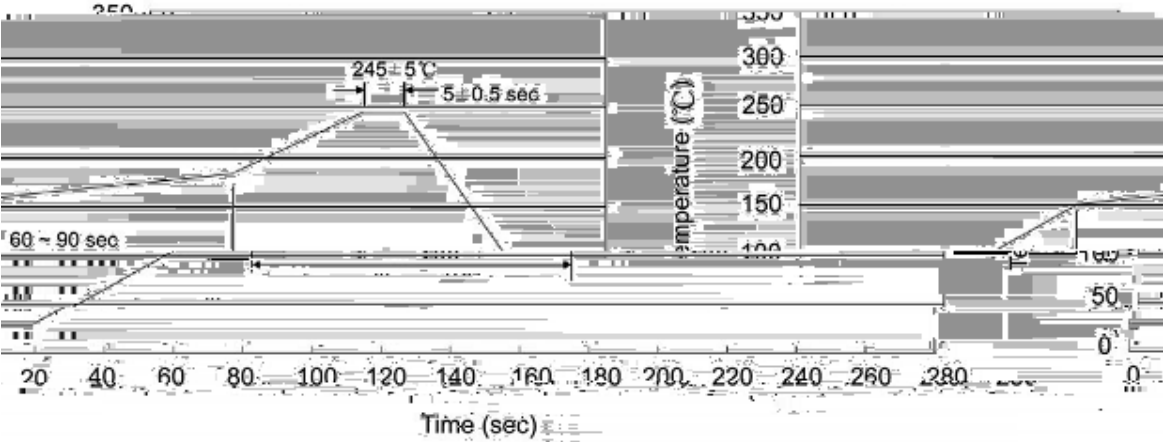
1: h_{FE}

Note:

H: Company Code

DV: Product Type Code

1: h_{FE} Classifications Symbol Code



Note:

- 1

150 180

60 90sec;
- 2

245±5

5±0.5sec;
- 3

2 10

/sec.
- 1.Preheating:150~180

, Time:60~90sec.
- 2.Peak Temp.:245±5

, Duration:5±0.5sec.
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-23	3,000	10	30,000	6	180,000	7" x8	180×120×180	39×385×205