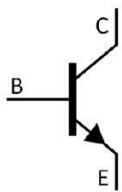


Silicon NPN transistor in a TO-220 Plastic Package.

High voltage high speed switching.

Use in horizontal deflection circuits of color TV.



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE}

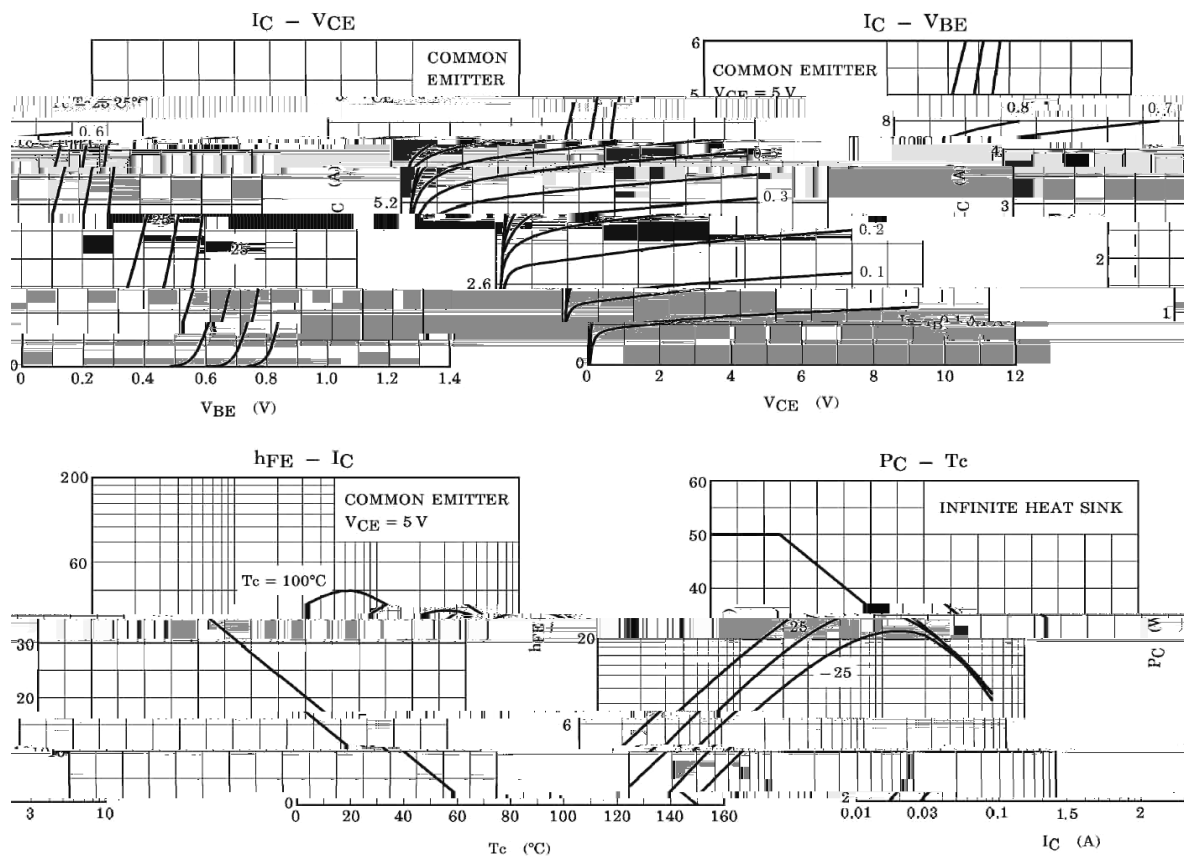
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	900	V
Collector to Emitter Voltage	V_{CEO}	500	V
Emitter to Base Voltage	V_{EBO}	9.0	V
Collector Current - Continuous	I_C	8.0	A
Peak Collector Current	I_{CM}	12	A
Collector Power Dissipation	$P_C(T_C=25)$	50	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

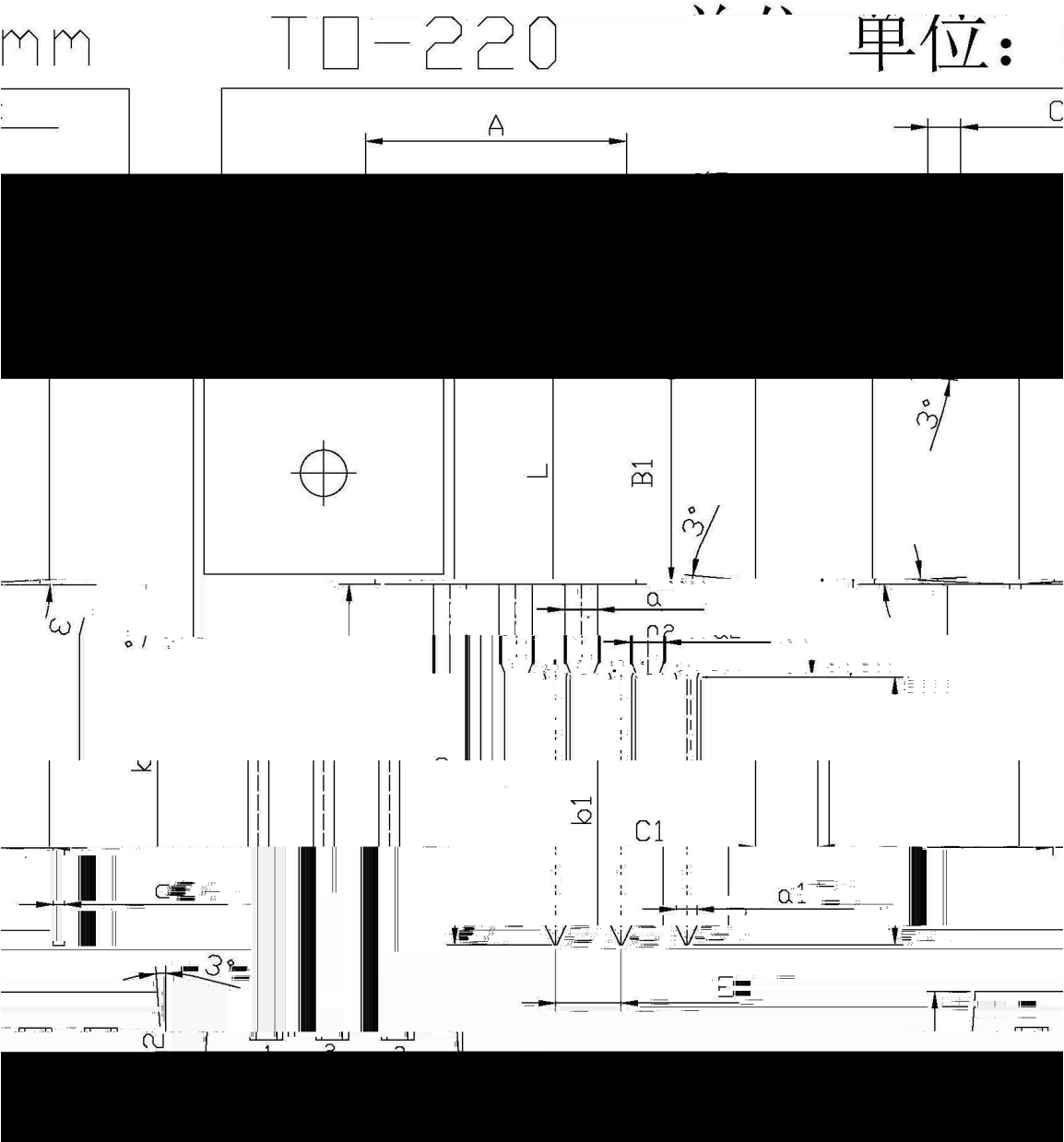
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=1mA$ $I_B=0$	900			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10mA$ $I_B=0$	500			V
Collector Cut-Off Current	I_{CEO}	$V_{CE}=500V$ $I_E=0$			250	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=9V$ $I_C=0$			100	μA
Collector Cut-Off Current	I_{CBO}	$V_{CB}=900V$ $I_C=0$			100	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5.0V$ $I_C=2.0A$	25		40	
	$h_{FE(2)}$	$V_{CE}=5.0V$ $I_C=5.0A$	8.0			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4.0A$ $I_B=1.0A$			5.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=4.0A$ $I_B=1.0A$			1.5	V
Transition Frequency	f_T	$V_{CE}=5V$ $I_C=0.1A$	2.0			MHz
Fall Time	t_S	$V_{CC}=125V$ $I_C=5A$ $I_{B1}=-I_{B2}=0.8A$			3.5	μs
Storage Time	t_f	$R_L=50\Omega$			0.7	μs

/ Electrical Characteristic Curve

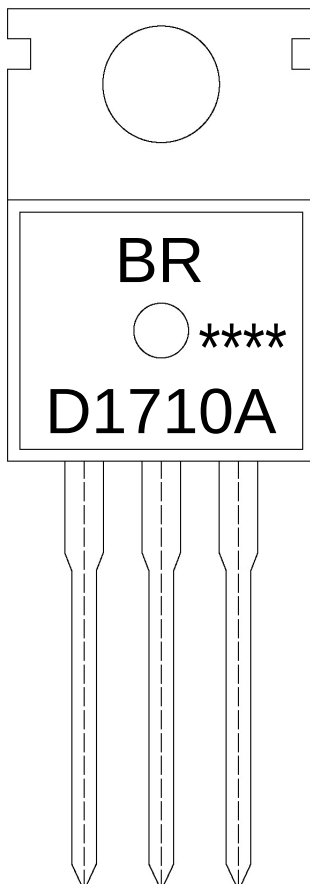


/ Package Dimensions



Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	9.8	10.2	C	1.2	1.4
B1	15.7	16.1	C1	0.4	0.6
h1	1.22	1.32			
	0.2	0.25		0.2	0.25

/ Marking Instructions



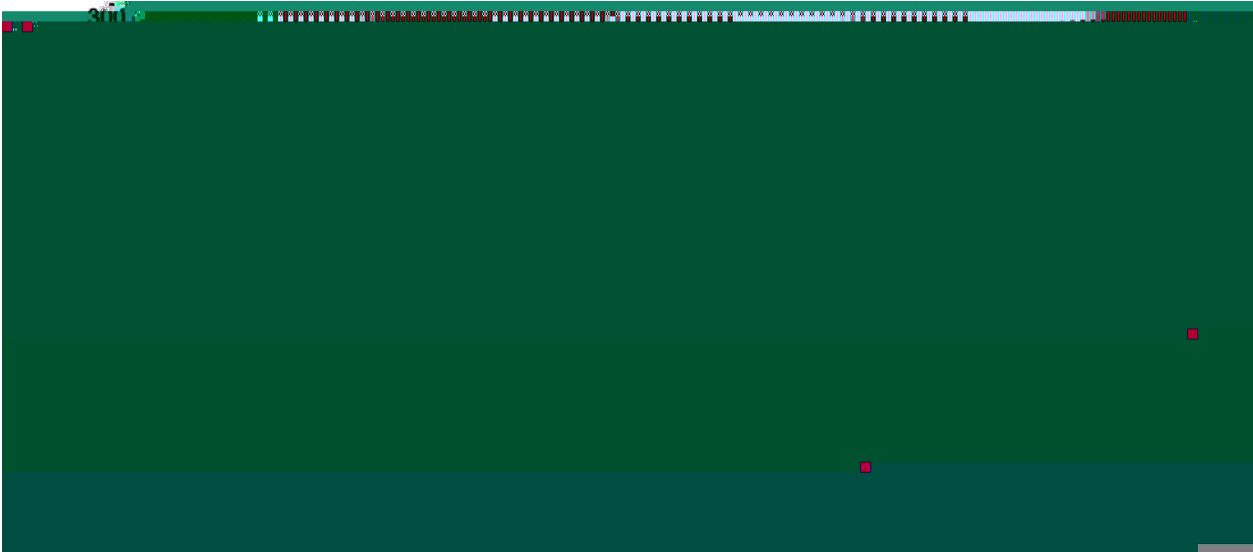
Note:

BR: Company Code

D1710A: Product Type.

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

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;
- 2

255 5

5 0.5sec;
- 3

2 10

/sec.
- 1.Preheating:25~150

,

Time:60~90sec.
- 2.Peak Temp.:255 5

,

Duration:5 0.5sec.
3. Cooling Speed: 2~10

/sec.

/ Resistance to Soldering Heat Test Conditions

270 5

10 1 sec.

Temp.:270±5

Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量		Dimension 包装尺寸 (unit: mm ³)	
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Dimension mm