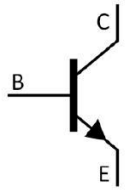
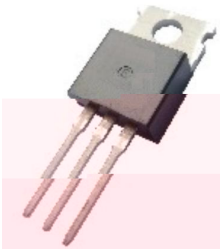
Silicon NPN transistor in a TO-220 Plastic Package.

High V_{CEO}, larger I_C, complement to BD912.

Use in power linear and switching applications.



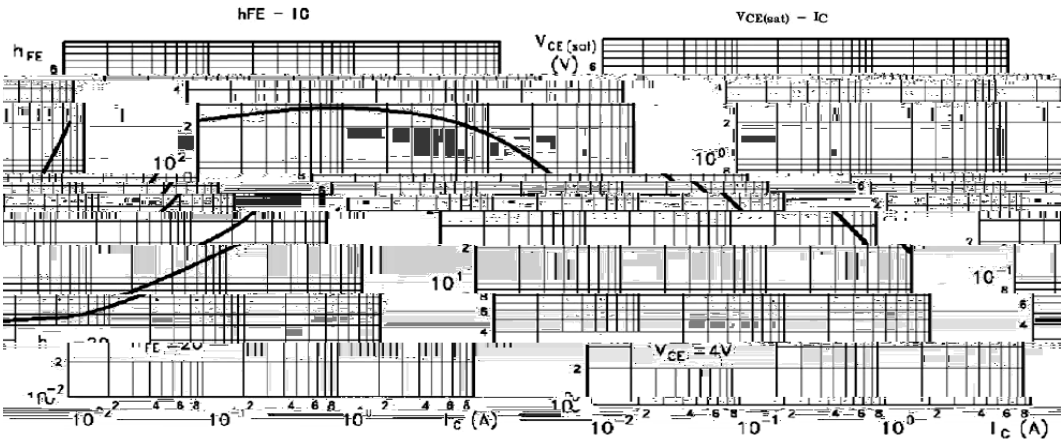


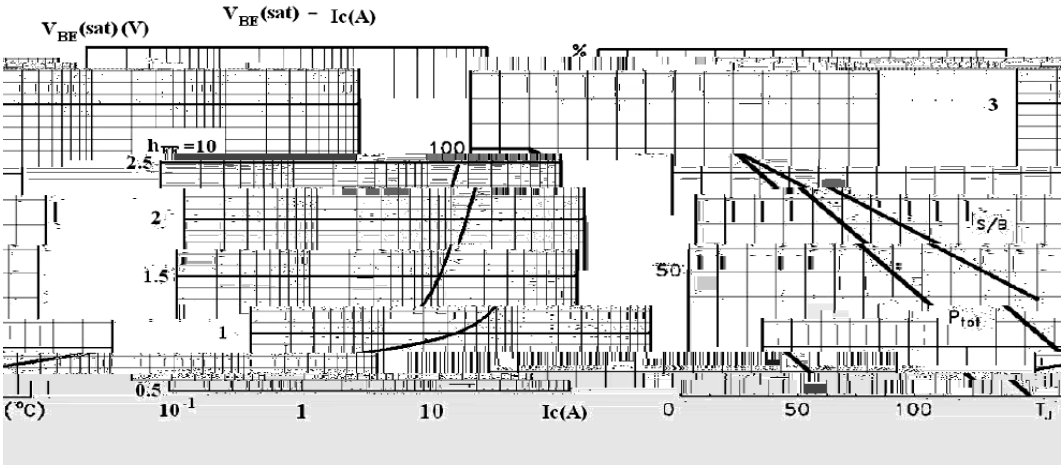
PIN1 Base PIN 2 Collector PIN 3 Emitter

See Marking Instructions.

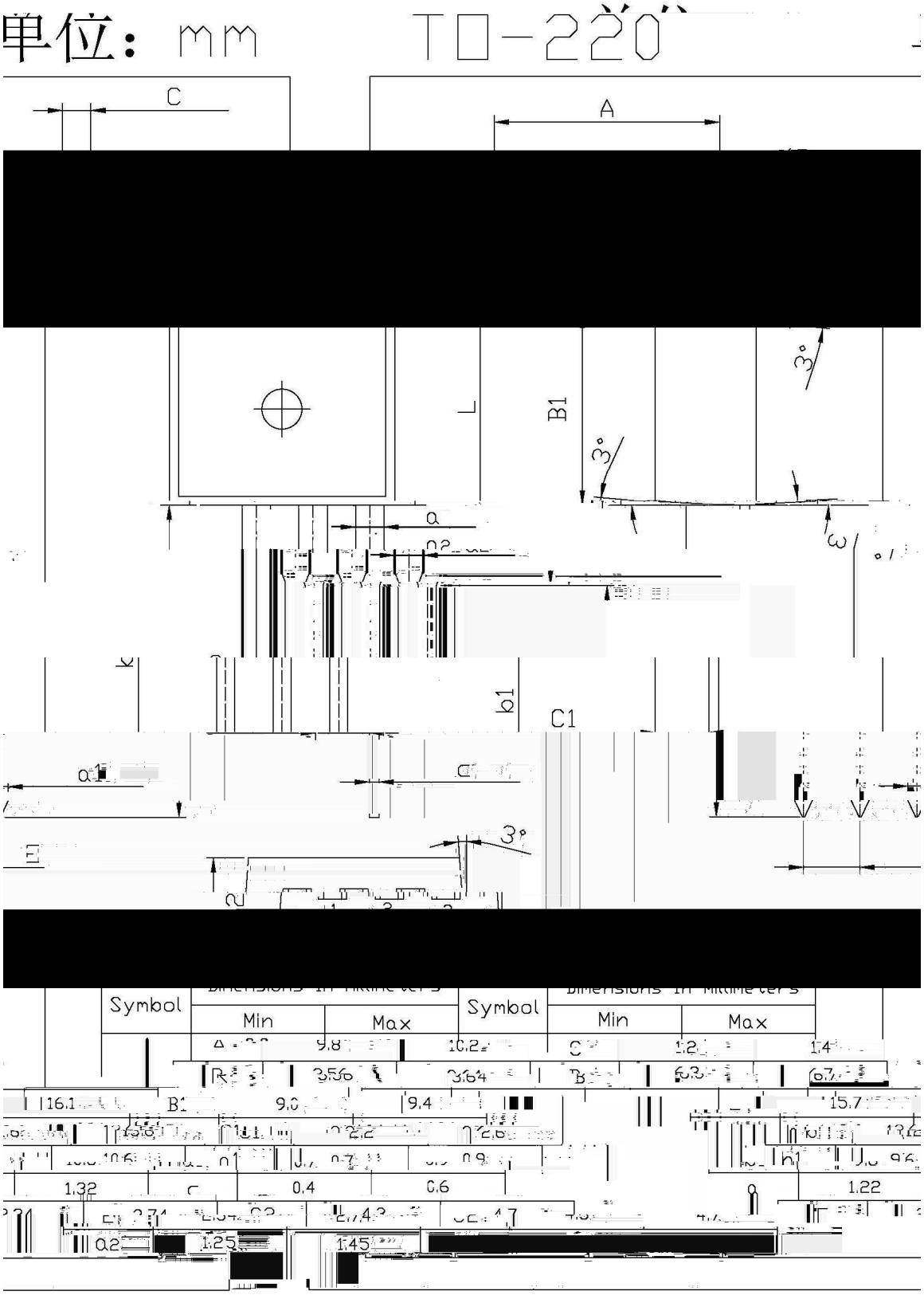
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	100	V
Collector to Emitter Voltage	V_{CEO}	100	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	15	A
Base Current – Continuous	I_B	5.0	A
Collector Power Dissipation	P_C(T_C=25)	90	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

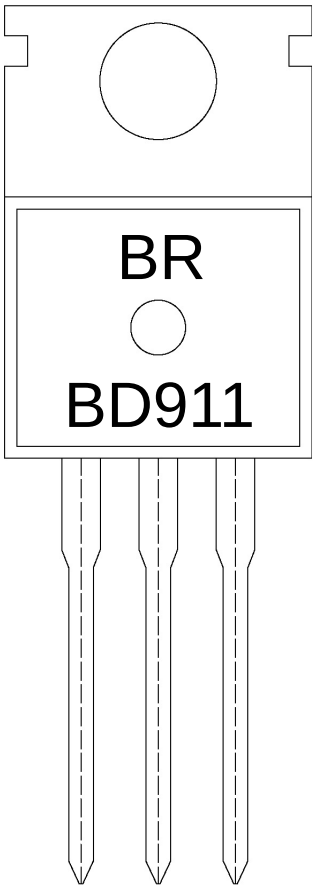
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=1.0mA I_B=0	100			V
Collector Cut-Off Current	$I_{CBO(1)}$	V_{CB}=100V I_E=0			0.5	mA
	$I_{CBO(2)}$	V_{CB}=100V I_E=0 T_C=150			5.0	mA
Collector Cut-Off Current	I_{CEO}	V_{CE}=50V I_B=0			1.0	mA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C=0			1.0	mA
DC Current Gain	$h_{FE(1)}$	V_{CE}=4.0V I_C=0.5A	40		250	
	$h_{FE(2)}$	V_{CE}=4.0V I_C=5.0A	15		150	
	$h_{FE(3)}$	V_{CE}=4.0V I_C=10A	5			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	I_C=5.0A I_B=0.5A			1.0	V
	$V_{CE(sat)(2)}$	I_C=10A I_B=2.5A			3.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=10A I_B=2.5A			2.5	V
Base to Emitter Voltage	V_{BE}	V_{CE}=4.0V I_C=5.0A			1.5	V
Transition Frequency	f_T	V_{CE}=4.0V I_C=0.5A	3.0			MHz


hFE – IC
VCE(sat) – IC
VCE=4V
IC (A)


VBE(sat) – Ic(A)
VBE(sat) (V)
hFE=10
Ic(A)
(°C)
TJ

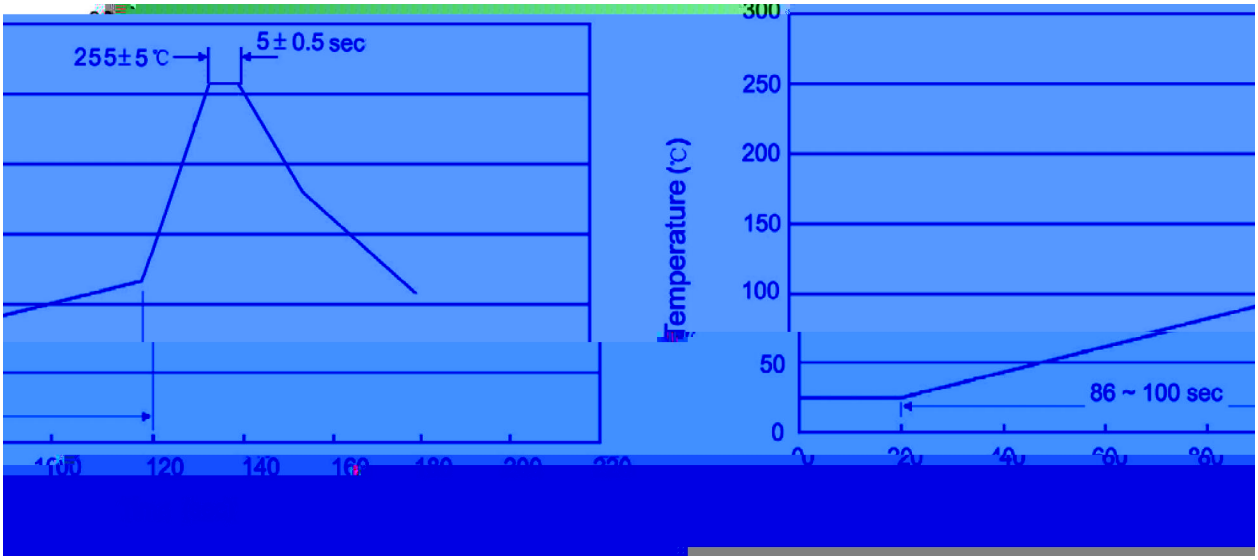
单位：mm TO-220


C
A
L
B1
3°
3°
a
c2
k
b1
C1
a1
c
3°
L1
Symbol
Min
Max
Symbol
Min
Max
A 9.8 10.2
C 1.2 1.4
R 3.56 3.64
B 6.3 6.7
B1 9.0 9.4
16.1
15.7
1.32
c 0.4 0.6
1.22
0.2
1.25
1.45



Note:

BR:	Company Code
BD911:	Product Type.
****:	Lot No. Code, code change with Lot No.



	Note:
1 25 150 60 90sec;	1.Preheating:25~150 , Time:60~90sec.
2 255 5 5 0.5sec;	2.Peak Temp.:255 5 , Duration:5 0.5sec.
3 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

270 5 10 1 sec. Temp.:270±5 Time:10±1 sec

/ BULK

Package Type	Units					Dimension		(unit mm^3)

/ TUBE

Package Type	Units					Dimension		(unit mm^3)