

/ Descriptions

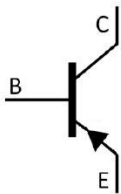
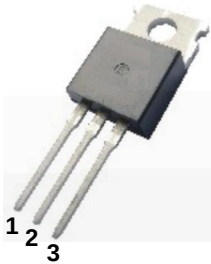
Silicon PNP transistor in a TO-220 Plastic Package.

/ Features

Complement to .

/ Applications

Use in general-purpose amplifier and switching applications.

/ Equivalent Circuit**/ Pinning**

PIN1 Base PIN 2 Collector PIN 3 Emitter

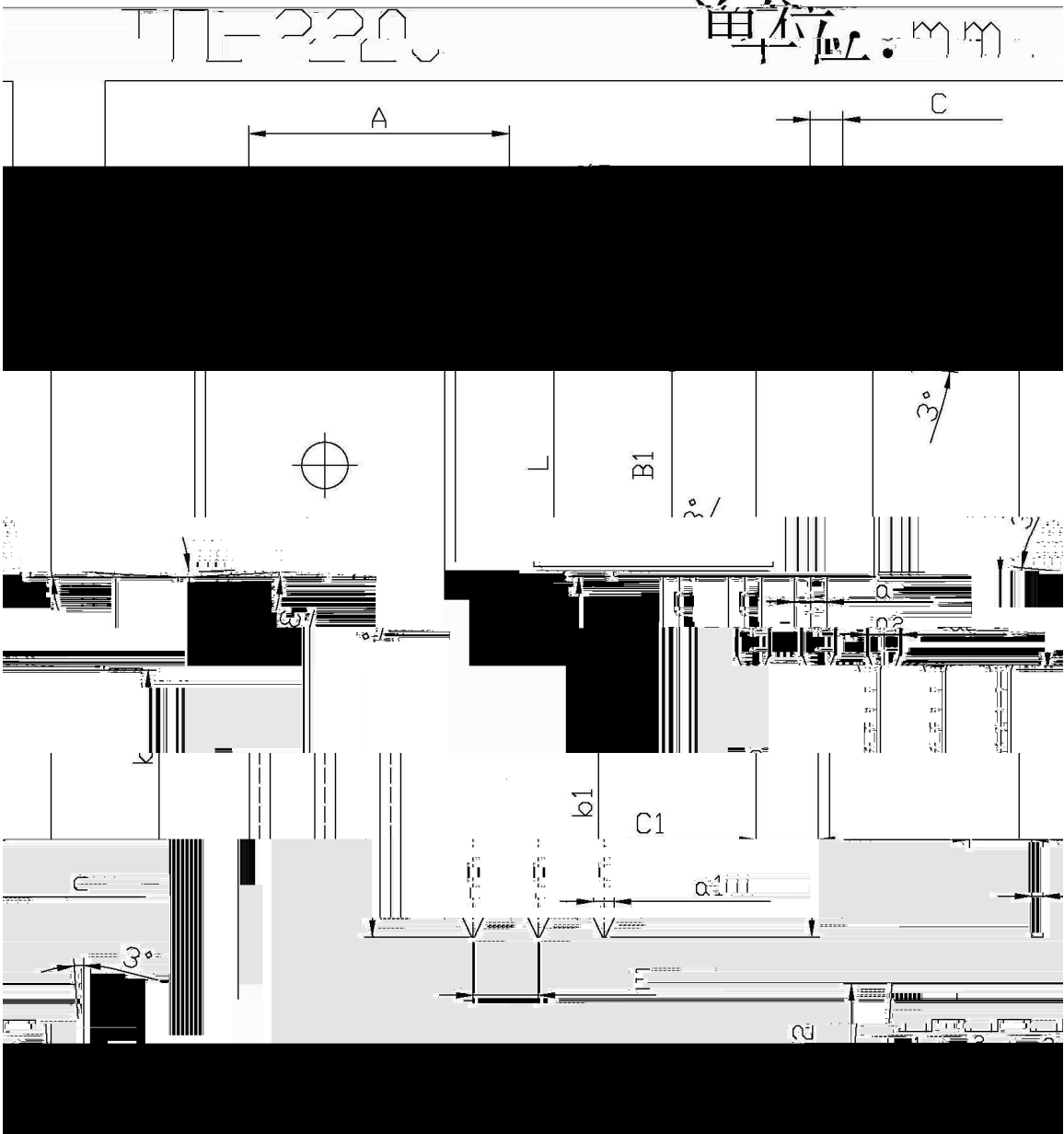
/ h_{FE} Classifications & Marking

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-90	V
Collector to Emitter Voltage	V_{CEO}	-80	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-15	A
Base Current	I_B	-5.0	A
Total Power Dissipation	$P_D(T_C=25^{\circ}\text{C})$	75	W
	$P_D(T_A=25^{\circ}\text{C})$	1.8	W
Operating and Storage Junction Temperature Range	$T_j T_{stg}$	-65~+150	
Thermal Resistance Junction to Case	R_{JC}	1.67	/W
Thermal Resistance Junction to Ambient	R_{JA}	70	/W

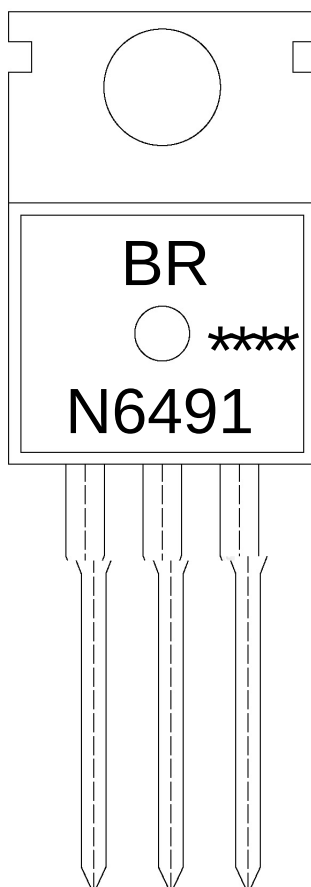
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C=-200\text{mA}$ $I_B=0$	-80			V
Collector Emitter Sustaining Voltage	V_{CEX}	$I_C=-200\text{mA}$ $V_{BE}=-1.5\text{V}$	-90			V
Collector Cut-Off Current	I_{CEX}	$V_{CB}=-85\text{V}$ $V_{BE(off)}=-1.5\text{V}$			-500	A
		$V_{CB}=-80\text{V}$ $V_{BE(off)}=-1.5\text{V}$ $T_C=150^{\circ}\text{C}$			-5.0	A
Collector Cut-Off Current	I_{CEO}	$V_{CE}=-40\text{V}$ $I_B=0$			-1.0	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0\text{V}$ $I_C=-40\text{V}$				

/ 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	3.56	3.64	L	6.3	6.7
b1	15.7	16.1	B1	9.0	9.4
C1	1.2	1.4			

/ Marking Instructions



BR

N6491

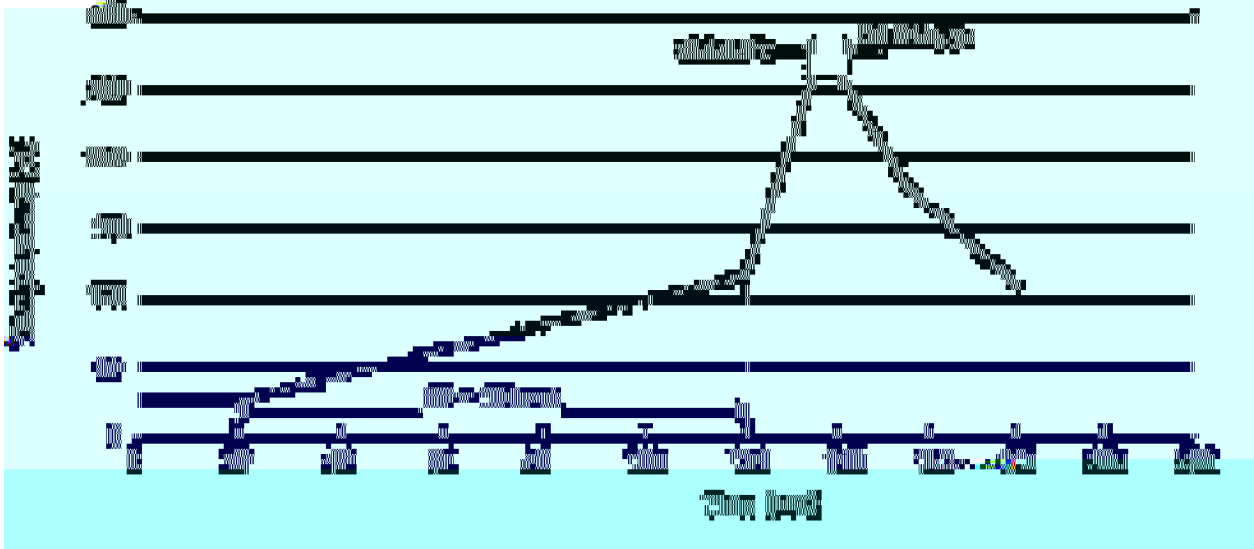
Note:

BR: Company Code

N6491: 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	Units		Dimension	(unit mm ³)
	Units/Bag	Bags/Inner Box		