

**/ Descriptions**

TO-92          NPN                          Silicon NPN transistor in a TO-92 Plastic Package.

**/ Features**

Small output capacitance, low noise figure.

**/ Applications**

AM converter ,AM/FM IF amplifier and local oscillator of AM/FM tuner.

**/ Equivalent Circuit**



**/ Pinning**



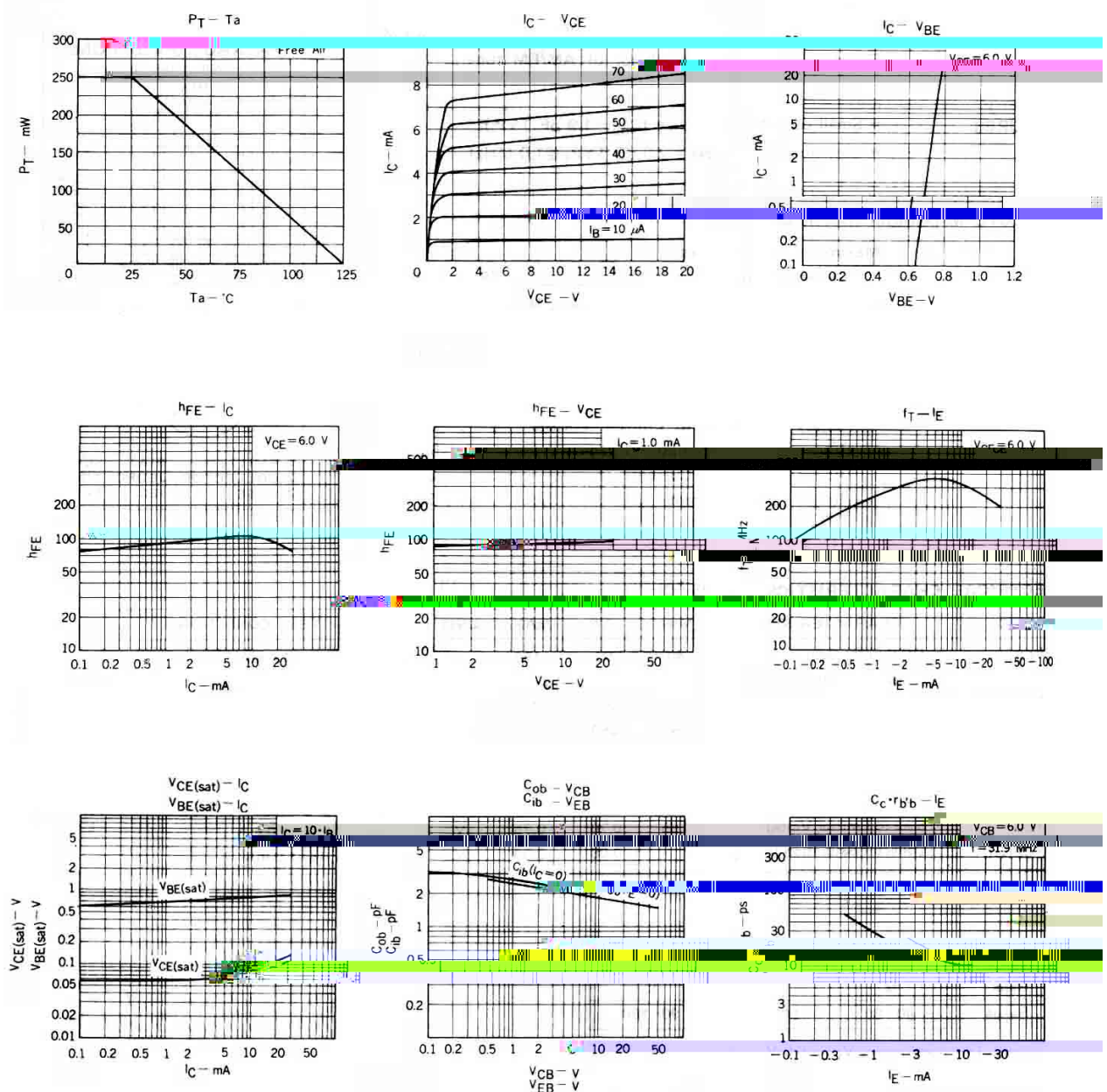
PIN1 Base          PIN 2 Collector          PIN 3 Emitter

**/ hFE Classifications & Marking**

h <sub>FE</sub> Classifications Symbol	M	L	K
h <sub>FE</sub> Range	40~80	60~120	90~180

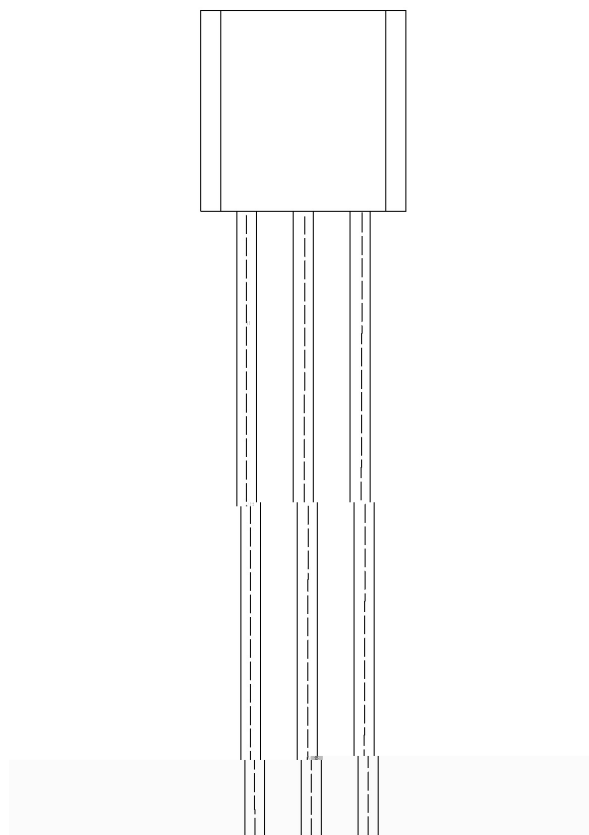
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	50	V
Collector to Emitter Voltage	$V_{CEO}$	30	V
Emitter to Base Voltage	$V_{EBO}$	5.0	V
Collector Current - Continuous	$I_C$	30	mA
Base Current – Continuous	$I_B$	30	mA
Collector Power Dissipation	$P_C$	250	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

/ Electrical Characteristic Curve



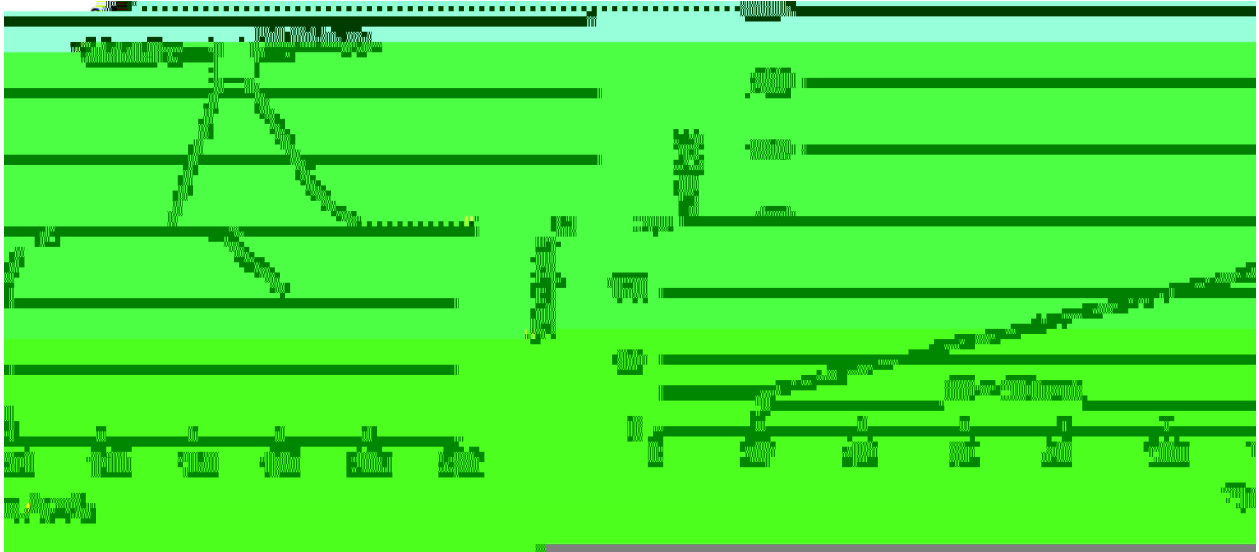


/ Marking Instructions



BR:

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



- 1            25   150            60   90sec;
- 2            255±5                    5±0.5sec;
- 3                            2   10   /sec.

Note:

- 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

dBWB(37#)