Silicon NPN transistor in a SOT-23 Plastic Package.

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | 50 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | 45 | V |
| Emitter to Base Voltage | $V_{EBO}$ | 4.0 | V |
| Collector Current | $I_C$ | 50 | mA |
| Emitter Current | $I_E$ | -50 | mA |
| Collector Power Dissipation | $P_C$ | 200 | mW |
| Junction Temperature | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

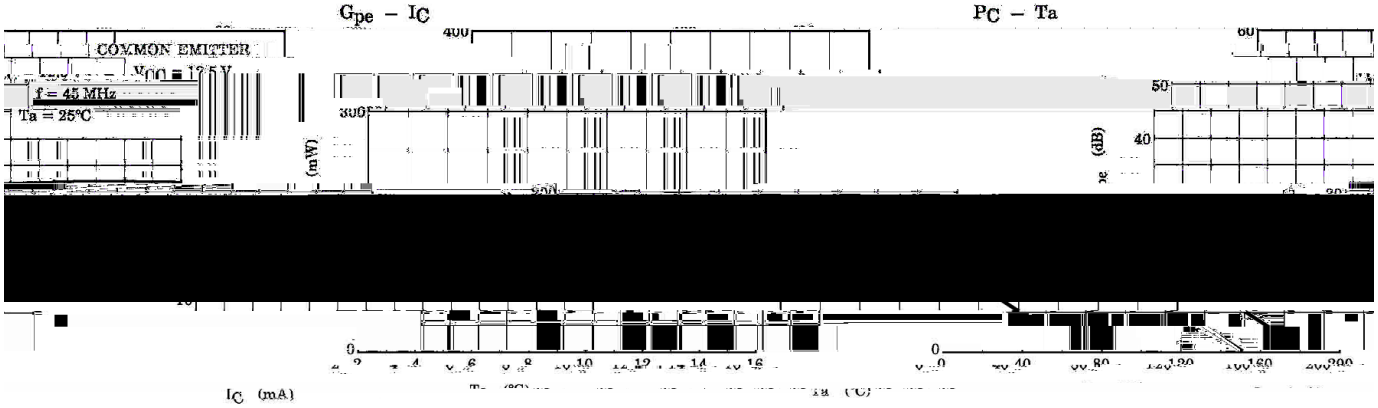
$f_T$ – $I_C$




$C_{ob}$ – $V_{CB}$



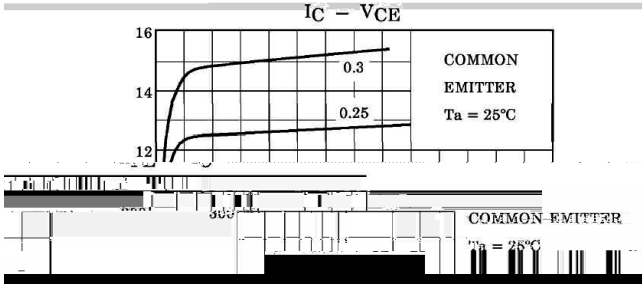

$G_{pe}$ – $I_C$



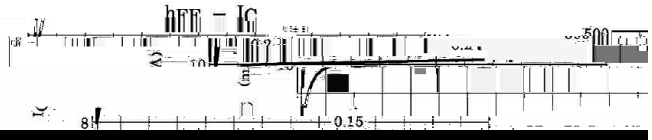

$P_C$ – Ta

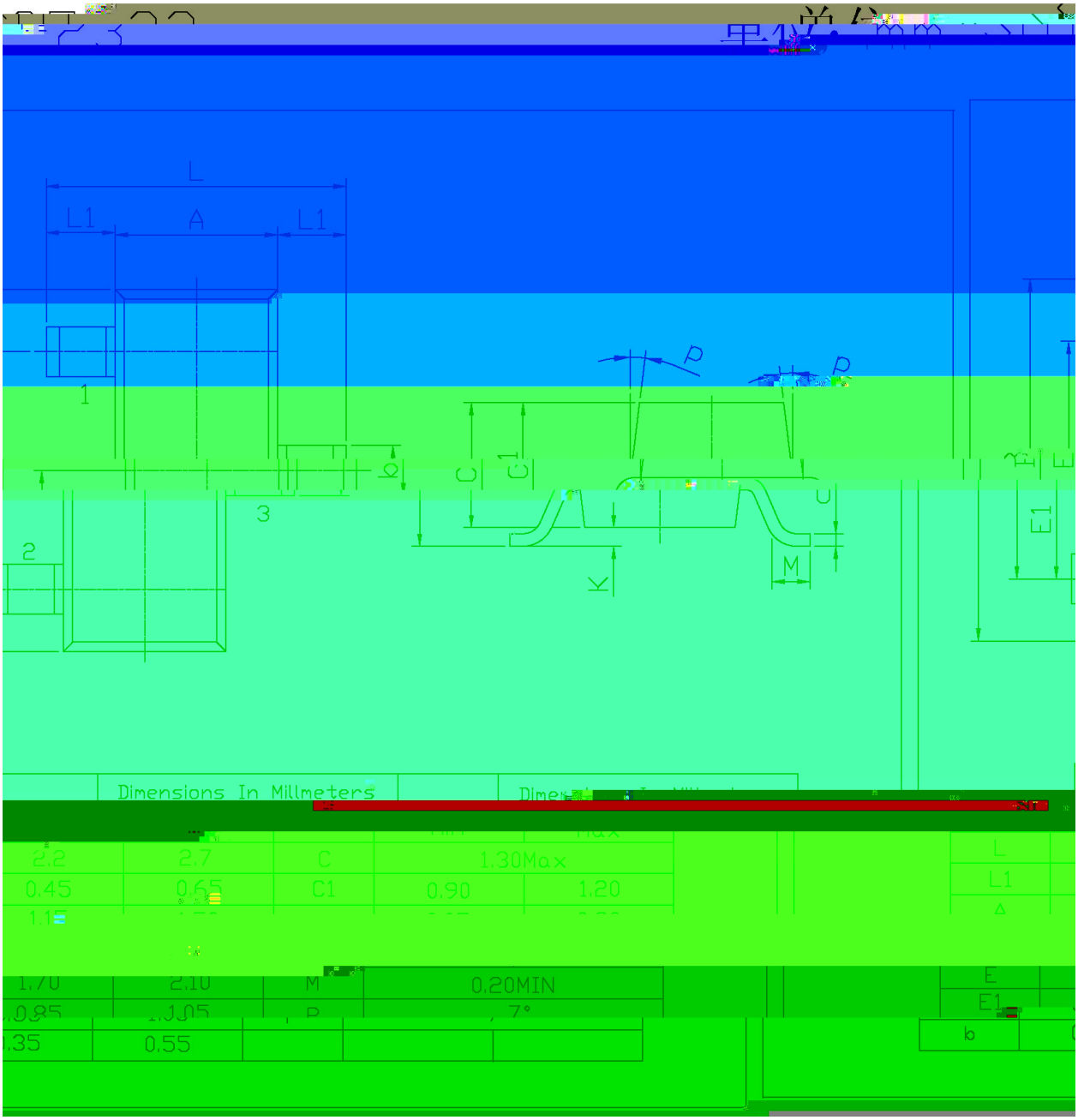


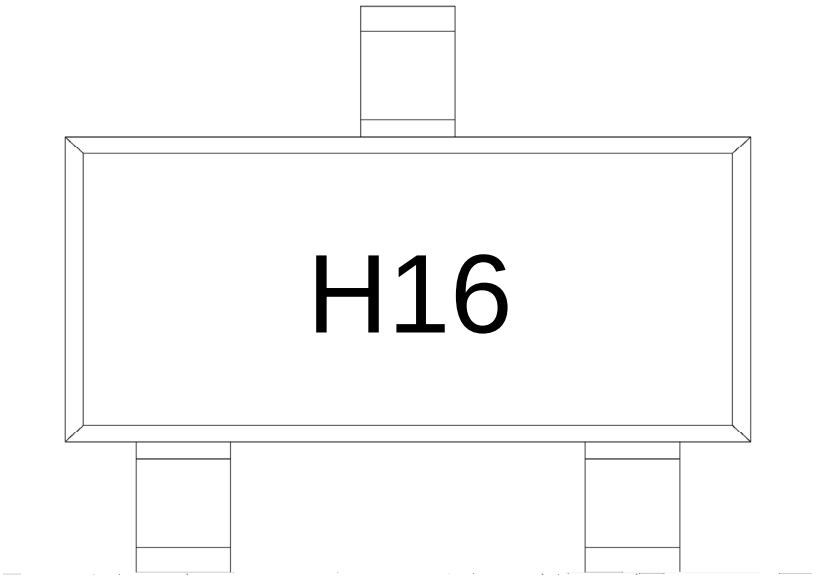

$I_C$ – $V_{CE}$




$h_{FE}$ – $I_C$




L
L1
A
L1
1
2
3
M
E1
Dimensions In Millmeters
2.2
2.7
C
1.30Max
0.45
C1
0.90
1.20
L
L1
A
0.20MIN
E
E1
b
0.55

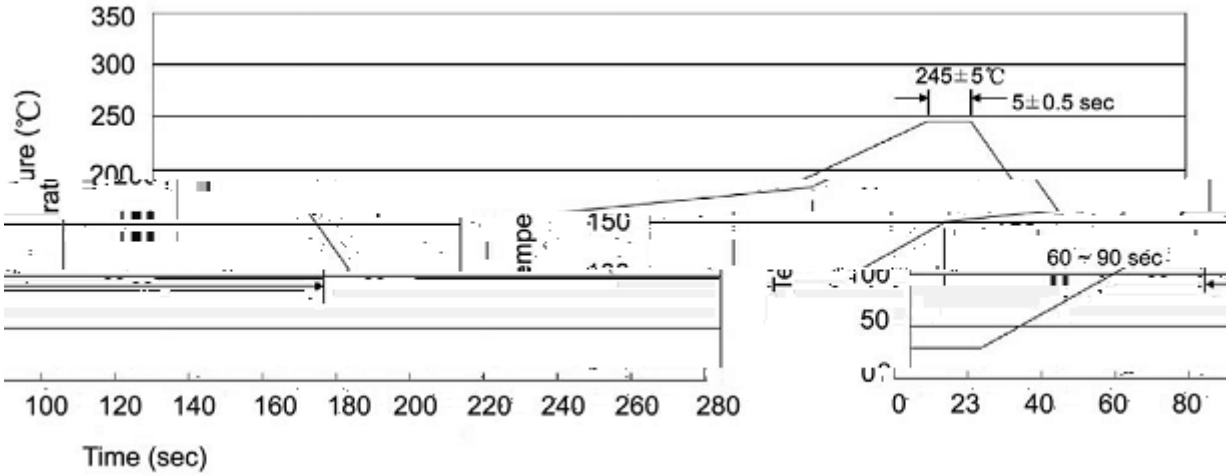



Note:

H: Company Code

16: Product Type Code

## Temperature Profile for IR Reflow Soldering(Pb-Free)




Note:

1 25 150 60 90sec;

1.Preheating:25~150 , Time:60~90sec.

2 245 5 5 0.5sec;

2.Peak Temp.:245 5 , Duration:5 0.5sec.

3 2 10 /sec.

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$^3$) |
|---|---|---|---|