

S8550M

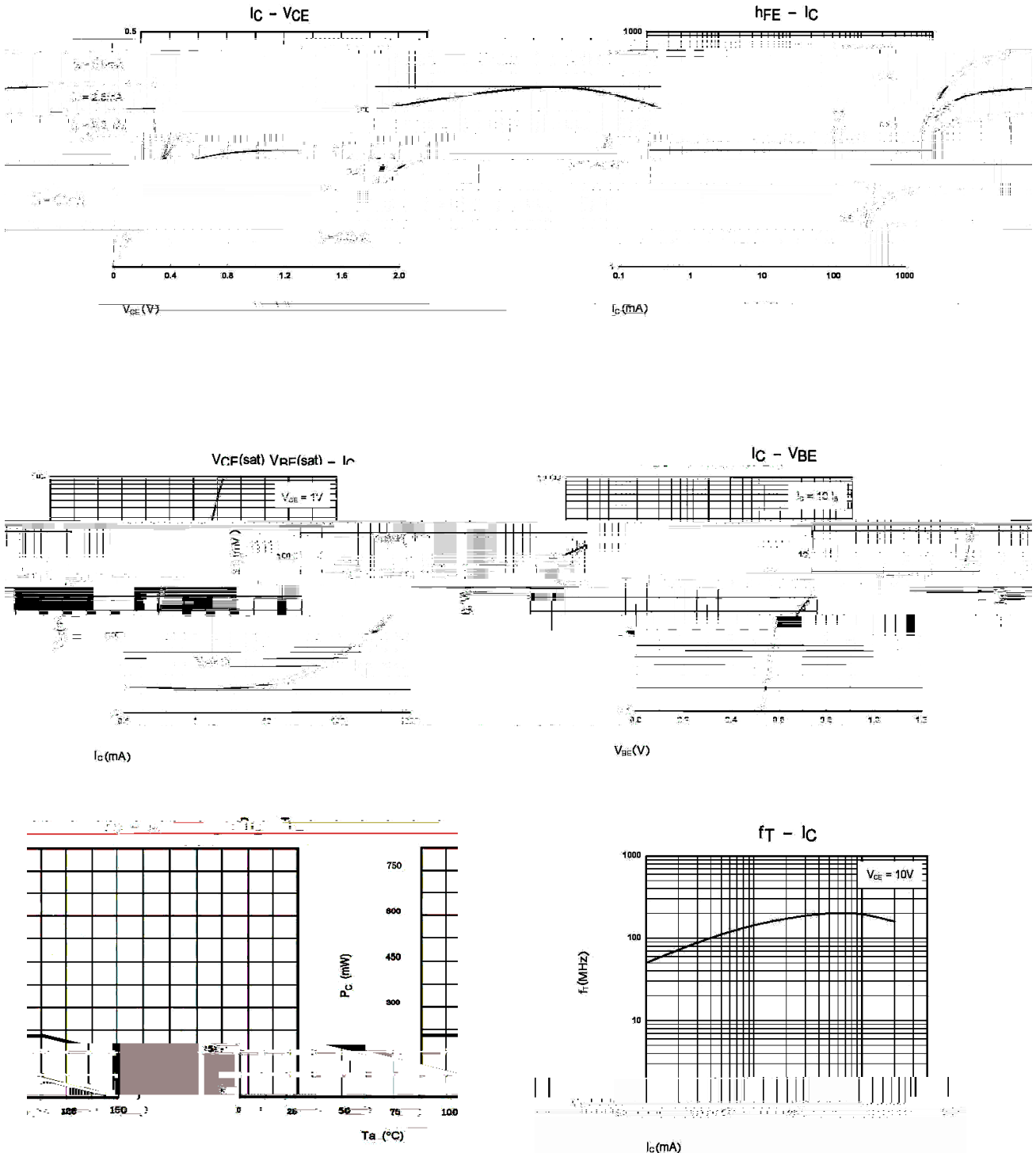
/ Absolute Maximum Ratings(Ta=25)

| Parameter | Symbol | Rating | Unit |
|------------------------------|------------------|---------|------|
| Collector to Base Voltage | V _{CBO} | -40 | V |
| Collector to Emitter Voltage | V _{CEO} | -25 | V |
| Emitter to Base Voltage | V _{EBO} | -6.0 | V |
| Collector Current | I _C | -800 | mA |
| Base Current | I _B | -200 | mA |
| Collector Power Dissipation | P _C | 200 | mW |
| Junction Temperature | T _j | 150 | |
| Storage Temperature Range | T _{stg} | -65 150 | |

/ Electrical Characteristics(Ta=25)

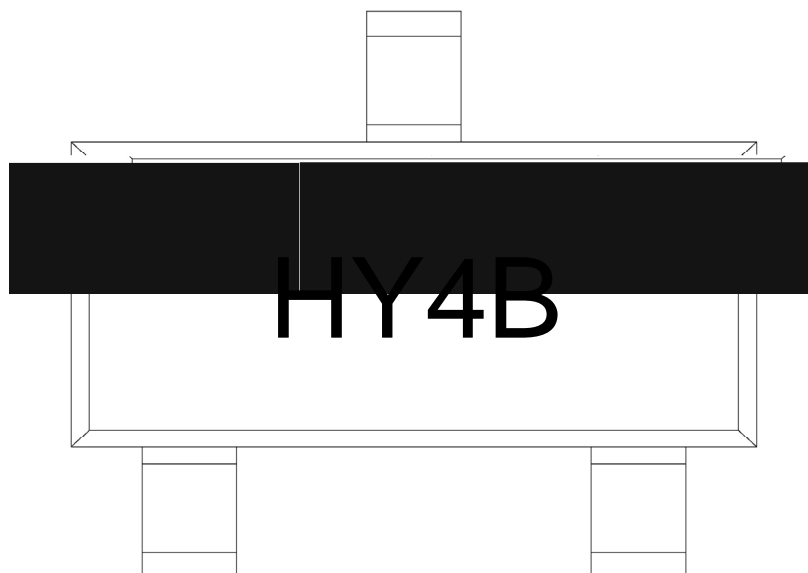
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--|----------------------|---|------|-------|------|------|
| Collector to Base Breakdown Voltage | V _{CBO} | I _C =-0.1mA I _E =0 | -40 | | | V |
| Collector to Emitter Breakdown Voltage | V _{CEO} | I _C =-2.0mA I _B =0 | -25 | | | V |
| Emitter to Base Breakdown Voltage | V _{EBO} | I _E =-0.1mA I _C =0 | -6.0 | | | V |
| Collector Cut-Off Current | I _{CBO} | V _{CB} =-35V I _E =0 | | | -0.1 | μA |
| Emitter Cut-Off Current | I _{EBO} | V _{EB} =-6.0V I _C =0 | | | -0.1 | μA |
| DC Current Gain | h _{FE(1)} | V _{CE} =-1.0V I _C =-100mA | 85 | | 300 | |
| | h _{FE(2)} | V _{CE} =-1.0V I _C =-500mA | 40 | | | |
| | h _{FE(3)} | V _{CE} =-1.0V I _C =-5.0mA | 45 | | | |
| Collector-emitter Saturation Voltage | V _{CE(sat)} | I _C =-500mA I _B =-50mA | | -0.28 | -0.6 | V |
| Base-Emitter Saturation Voltage | V _{BE(sat)} | I _C =-500mA I _B =-50mA | | -0.98 | -1.2 | V |
| Base-Emitter Voltage | V _{BE} | V _{CE} =-1.0V I _C =-10mA | | -0.66 | -1.0 | V |
| Transition Frequency | f _T | V _{CE} =-10V I _C =-50mA | 100 | 200 | | MHz |
| Collector Output Capacitance | C _{ob} | V _{CB} =-10V I _E =0 f=1.0MHz | | 15 | | pF |

/ Electrical Characteristic Curve



/ Package Dimensions

/ Marking Instructions



H

Y4

B h_{FE}

Note:

H Company Code

Y4 Product Type Code

B h_{FE} Classifications Symbol Code

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

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Note:

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|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , 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. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

| Package Type | Units | | | | | Dimension (unit mm ³) | | |
|--------------|------------|-----------------|-----------------|-----------------------|-----------------|-----------------------------------|-----------|-----------|
| | Units/Reel | Reels/Inner Box | Units/Inner Box | Inner Boxes/Outer Box | Units/Outer Box | Reel | Inner Box | Outer Box |
| | | | | | | | | |