

## Features

- Compliment to PXT8050



SOT-89-3L

## Absolute Maximum Ratings( $T_A=25^{\circ}\text{C}$ )

| Symbol          | Parameter                                        | Value      | Unit                 |
|-----------------|--------------------------------------------------|------------|----------------------|
| $V_{CB0}$       | Collector-Base Voltage                           | -40        | V                    |
| $V_{CE0}$       | Collector-Emitter Voltage                        | -25        | V                    |
| $V_{EB0}$       | Emitter-Base Voltage                             | -5         | V                    |
| $I_C$           | Collector Current                                | -1.5       | A                    |
| $P_C$           | Collector Power Dissipation                      | 0.5        | W                    |
| $R_{\theta JA}$ | Thermal Resistance From Junction To Ambient      | 250        | $^{\circ}\text{C/W}$ |
| $T_J, T_{stg}$  | Operation Junction And Storage Temperature Range | -55 ~ +150 | $^{\circ}\text{C}$   |

## Electrical Characteristics ( $T_A=25^{\circ}\text{C}$ unless otherwise specified)

| Symbol        | Parameter                            | Test conditions                            | Min | Typ | Max   | Unit          |
|---------------|--------------------------------------|--------------------------------------------|-----|-----|-------|---------------|
| $V_{(BR)CBO}$ | Collector-base breakdown voltage     | $I_C=-100\mu\text{A}, I_E=0$               | -40 |     |       | V             |
| $V_{(BR)CEO}$ | Collector-emitter breakdown voltage  | $I_C=-0.1\text{mA}, I_B=0$                 | -25 |     |       | V             |
| $V_{(BR)EBO}$ | Emitter-base breakdown voltage       | $I_E=-100\mu\text{A}, I_C=0$               | -5  |     |       | V             |
| $I_{CBO}$     | Collector cut-off current            | $V_{CB}=-40\text{V}, I_E=0$                |     |     | -0.1  | $\mu\text{A}$ |
| $I_{CEO}$     | Emitter cut-off current              | $V_{CE}=-20\text{V}, I_B=0$                |     |     | -0.1  | $\mu\text{A}$ |
| $I_{EBO}$     | Emitter cut-off current              | $V_{EB}=-5\text{V}, I_C=0$                 |     |     | -0.1  | $\mu\text{A}$ |
| $h_{FE(1)}$   | DC current gain                      | $V_{CE}=-1\text{V}, I_C=-100\text{mA}$     | 85  |     | 400   |               |
| $h_{FE(2)}$   |                                      | $V_{CE}=-1\text{V}, I_C=-800\text{mA}$     | 40  |     |       |               |
| $V_{CE(sat)}$ | Collector-emitter saturation voltage | $I_C=-800\text{mA}, I_B=-80\text{mA}$      |     |     | -0.5  | V             |
| $V_{BE(sat)}$ | Base-emitter saturation voltage      | $I_C=-800\text{mA}, I_B=-80\text{mA}$      |     |     | -1.2  | V             |
| $V_{BE(on)}$  | Base-emitter on voltage              | $I_C=-1\text{V}, V_{CE}=-10\text{mA}$      |     |     | -1    | V             |
| $V_{BEF}$     | Base-emitter positive favor voltage  | $I_B=-1\text{A}$                           |     |     | -1.55 | V             |
| $f_T$         | Transition frequency                 | $V_{CE}=-10\text{V}, I_C=-50\text{mA}$     | 100 |     |       | MHz           |
| $C_{ob}$      | Collector output capacitance         | $V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$ |     |     | 20    | pF            |

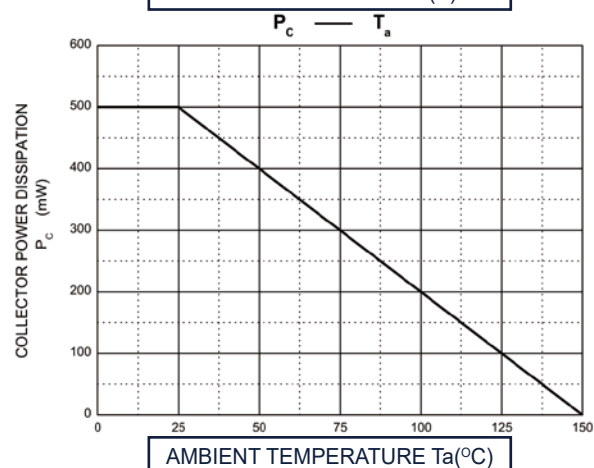
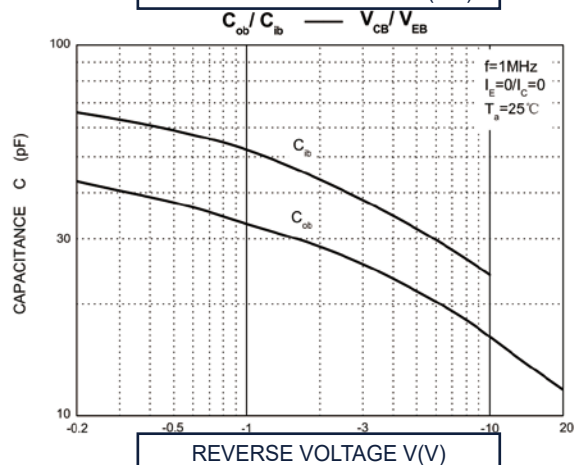
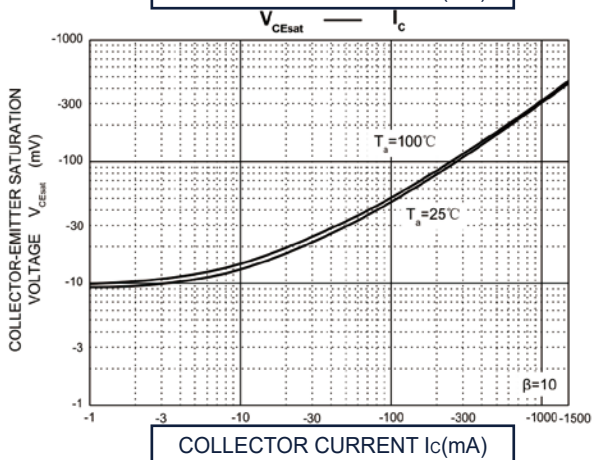
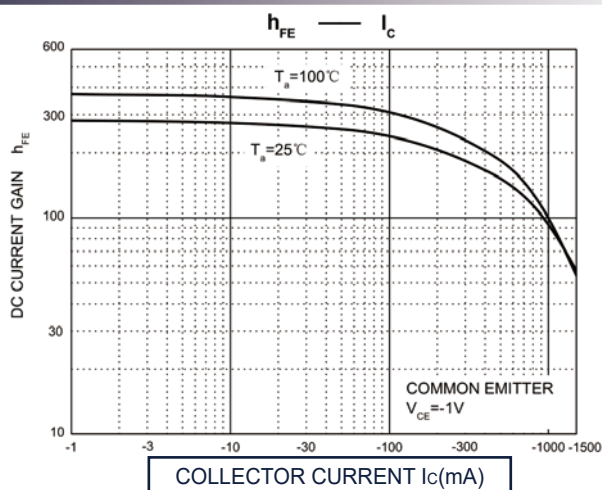
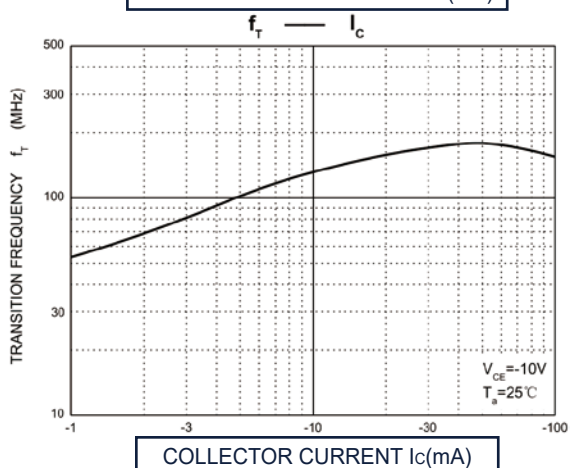
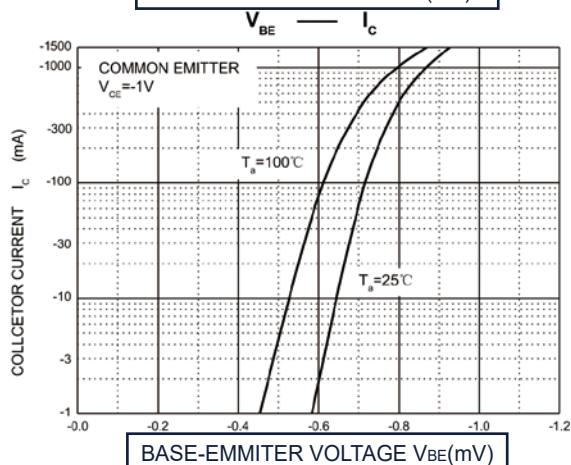
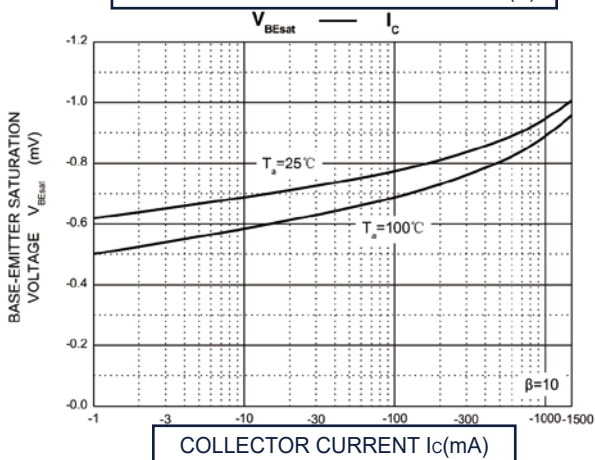
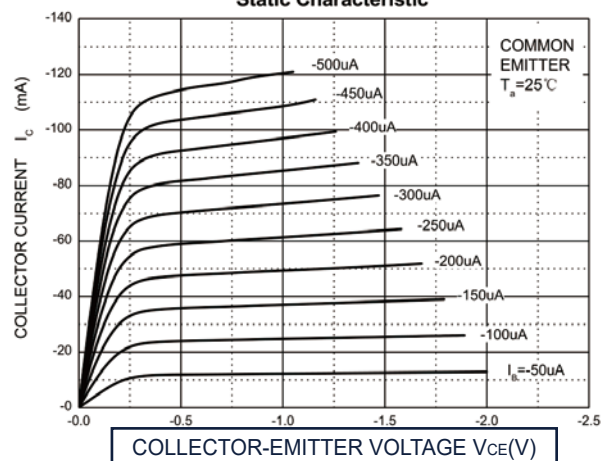
## Ordering information

| Product ID | Pack      | Naming rule                                                                                                                                                                                                                                                                             | Marking | $h_{FE(1)}$ | Qty(PCS) |
|------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|----------|
| PXT8550    | SOT-89-3L | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> PXT8550 </div><br><div style="text-align: center;"> <div style="width: 10px; height: 10px; background-color: black; margin: 0 auto;"></div> <div style="font-size: 8px;">产品名称<br/>product name</div> </div> | Y2      | 160-300     | 1000     |



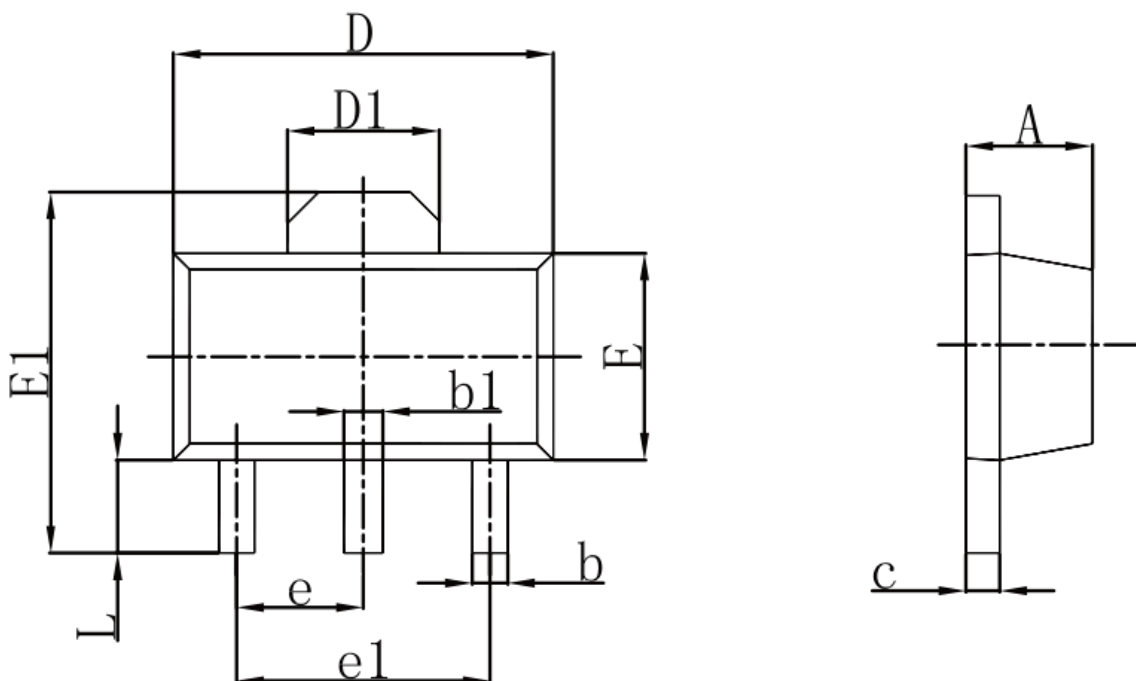
## Typical Characteristics

Static Characteristic





## SOT-89-3L Package Outline Dimensions



| Symbol | Dimensions in Millimeters |       | Dimensions In Inches |       |
|--------|---------------------------|-------|----------------------|-------|
|        | Min                       | Max   | Min                  | Max   |
| A      | 1.400                     | 1.600 | 0.055                | 0.063 |
| b      | 0.320                     | 0.520 | 0.013                | 0.020 |
| b1     | 0.400                     | 0.580 | 0.016                | 0.023 |
| c      | 0.350                     | 0.440 | 0.014                | 0.017 |
| D      | 4.400                     | 4.600 | 0.173                | 0.181 |
| D1     | 1.550 REF.                |       | 0.061 REF.           |       |
| E      | 2.300                     | 2.600 | 0.091                | 0.102 |
| E1     | 3.940                     | 4.250 | 0.155                | 0.167 |
| e      | 1.500 TYP.                |       | 0.060 TYP.           |       |
| e1     | 3.000 TYP.                |       | 0.118 TYP.           |       |
| L      | 0.900                     | 1.200 | 0.035                | 0.047 |