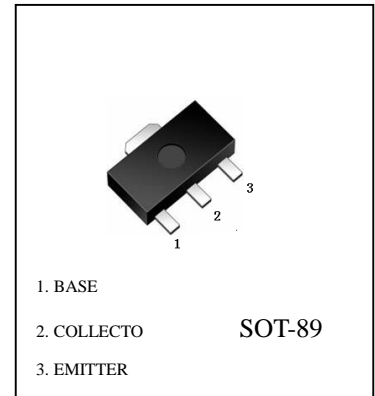


FEATURES

Complimentary to PXT8550

 Collector current: $I_C=1.5A$
MARKING: Y1
MAXIMUM RATINGS ($T_A=25^{\circ}C$ unless otherwise noted)

| Parameter | Symbol | Value | Unit |
|-------------------------------|-----------|---------|-------------|
| Collector-Base Voltage | V_{CBO} | 40 | V |
| Collector-Emitter Voltage | V_{CEO} | 25 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current -Continuous | I_C | 1500 | mA |
| Collector Power Dissipation | P_C | 500 | mW |
| Junction Temperature | T_J | 150 | $^{\circ}C$ |
| Storage Temperature | T_{stg} | -55-150 | $^{\circ}C$ |

PXT8050 (NPN)

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|---------------------------------------|---------------|---------------------------------|-----|-----|------|---------|
| Collector-base breakdown voltage | V_{CBO} | $I_C=100\mu A, I_E=0$ | 40 | | | V |
| Collector-emitter breakdown voltage | V_{CEO} | $I_C=0.1mA, I_B=0$ | 25 | | | V |
| Emitter-base breakdown voltage | V_{EBO} | $I_E=100\mu A, I_C=0$ | 5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=40V, I_E=0$ | | | 0.1 | μA |
| Collector cut-off current | I_{CEO} | $V_{CE}=20V, I_B=0$ | | | 0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=5V, I_C=0$ | | | 0.1 | μA |
| DC current gain | $h_{FE(1)}$ | $V_{CE}=1V, I_C=100mA$ | 85 | | 400 | |
| | $h_{FE(2)}$ | $V_{CE}=1V, I_C=800mA$ | 40 | | | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=800mA, I_B=80mA$ | | | 0.5 | V |
| Base-emitter saturation voltage | $V_{BE(sat)}$ | $I_C=800mA, I_B=80mA$ | | | 1.2 | V |
| Base-emitter voltage | V_{BE} | $V_{CE}=1V, I_C=10mA$ | | | 1 | V |
| Base-emitter positive forward voltage | V_{BEF} | $I_B=1A$ | | | 1.55 | V |
| Transition frequency | f_T | $V_{CE}=10V, I_C=50mA, f=30MHz$ | 100 | | | MHz |
| output capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | | | 15 | pF |

CLASSIFICATION OF HFE

| Rank | B | C | D | D3 |
|-------|--------|---------|---------|---------|
| Range | 85-160 | 120-200 | 160-300 | 300-400 |

PXT8050 Typical Characteristics

