

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Epitaxial Planar Die Construction

MARKING

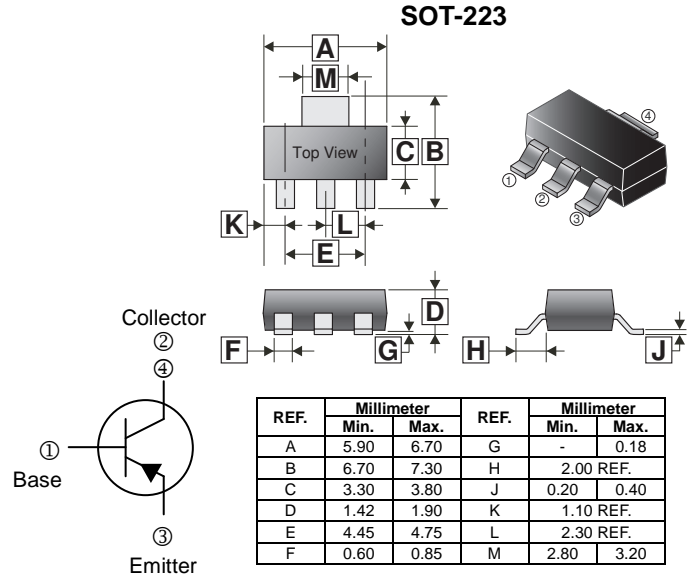
ZT2907A

PACKAGE INFORMATION

| Package | MPQ | Leader Size |
|---------|------|-------------|
| SOT-223 | 2.5K | 13 inch |

ORDER INFORMATION

| Part Number | Type |
|-------------|---------------------------------|
| PZT2907A-C | Lead (Pb)-free and Halogen-free |



MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

| Parameter | Symbol | Ratings | Unit |
|----------------------------------|-----------------------------------|--------------|------|
| Collector-Base Voltage | V _{CB0} | -60 | V |
| Collector-Emitter Voltage | V _{CEO} | -60 | V |
| Emitter-Base Voltage | V _{EBO} | -5 | V |
| Collector Current | I _C | -600 | mA |
| Collector Power Dissipation | P _C | 1 | W |
| Junction and Storage Temperature | T _J , T _{STG} | 150, -55~150 | °C |

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|--------------------------------------|----------------------|------|------|------|------|---|
| Collector-Base Breakdown Voltage | V _{(BR)CBO} | -60 | - | - | V | I _C = -10μA, I _E =0 |
| Collector-Emitter Breakdown Voltage | V _{(BR)CEO} | -60 | - | - | V | I _C = -10mA, I _B =0 |
| Emitter-Base Breakdown Voltage | V _{(BR)EBO} | -5 | - | - | V | I _C =0, I _E = -10μA |
| Collector Cut-Off Current | I _{CBO} | - | - | -10 | nA | V _{CB} = -50V, I _E =0 |
| Emitter Cut-Off Current | I _{EBO} | - | - | -50 | nA | V _{EB} = -5V, I _C =0 |
| Collector-Emitter Saturation Voltage | V _{CE(sat)} | - | - | -0.4 | V | I _C = -150mA, I _B = -15mA |
| | | - | - | -1.6 | | I _C = -500mA, I _B = -50mA |
| Base-Emitter Voltage | V _{BE(sat)} | - | - | -1.3 | V | I _C = -150mA, I _B = -15mA |
| | | - | - | -2.6 | | I _C = -500mA, I _B = -50mA |
| DC Current Gain | h _{FE} | 75 | - | - | | V _{CE} = -10V, I _C = -0.1mA |
| | | 100 | - | - | | V _{CE} = -10V, I _C = -1mA |
| | | 100 | - | - | | V _{CE} = -10V, I _C = -10mA |
| | | 100 | - | 300 | | V _{CE} = -10V, I _C = -150mA |
| | | 50 | - | - | | V _{CE} = -10V, I _C = -500mA |
| Transition Frequency | f _T | - | 200 | - | MHz | V _{CE} = -20V, I _C = -50mA, f=100MHz |
| Collector Capacitance | C _C | - | 8 | - | pF | V _{CB} = -10V, I _E =0, f=1MHz |
| Emitter Capacitance | C _E | - | 30 | - | pF | V _{EB} = -2V, I _C =0, f=1MHz |
| Delay Time | T _d | - | 12 | - | nS | I _C = -150mA, I _{B1} = -I _{B2} = -15mA |
| Rise Time | T _r | - | 30 | - | | |
| Storage Time | T _s | - | 300 | - | | |
| Fall Time | T _f | - | 65 | - | | |

CHARACTERISTIC CURVES

