

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

FEATURES

- For AF Driver and Output Stages
- High Collector Current
- Low Collector-Emitter Saturation Voltage

MARKING

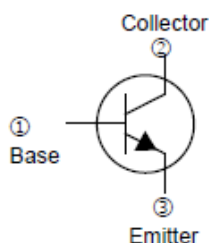
ZTA44

PACKAGE INFORMATION

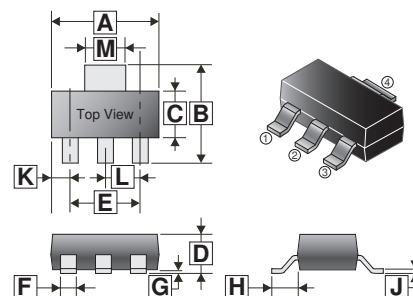
| Package | MPQ | Leader Size |
|---------|------|-------------|
| SOT-223 | 2.5K | 13 inch |

ORDER INFORMATION

| Part Number | Type |
|-------------|---------------------------------|
| PZTA44-C | Lead (Pb)-free and Halogen-free |



SOT-223



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 5.90 | 6.70 | G | - | 0.18 |
| B | 6.70 | 7.30 | H | 2.00 | REF. |
| C | 3.30 | 3.80 | J | 0.20 | 0.40 |
| D | 1.42 | 1.90 | K | 1.10 | REF. |
| E | 4.45 | 4.75 | L | 2.30 | REF. |
| F | 0.60 | 0.85 | M | 2.80 | 3.20 |

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

| Parameter | Symbol | Ratings | Unit |
|----------------------------------|-----------------------------------|--------------|------|
| Collector-Base Voltage | V _{CBO} | 400 | V |
| Collector-Emitter Voltage | V _{CEO} | 400 | V |
| Emitter-Base Voltage | V _{EBO} | 6 | V |
| Collector Current-Continuous | I _C | 200 | mA |
| Collector Current-Pulsed | I _{CM} | 300 | 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. | Max. | Unit | Test Conditions |
|--------------------------------------|----------------------|------|------|------|--|
| Collector-Base Breakdown Voltage | V _{(BR)CBO} | 400 | - | V | I _C =0.1mA, I _E =0 |
| Collector-Emitter Breakdown Voltage | V _{(BR)CEO} | 400 | - | V | I _C =1mA, I _B =0 |
| Emitter-Base Breakdown Voltage | V _{(BR)EBO} | 6 | - | V | I _E =100μA, I _C =0 |
| Collector Cut-off Current | I _{CBO} | - | 100 | nA | V _{CB} =400V, I _E =0 |
| Emitter Cut-off Current | I _{EBO} | - | 100 | nA | V _{EB} =4V, I _C =0 |
| DC Current Gain | h _{FE} | 40 | - | V | V _{CE} =10V, I _C =1mA |
| | | 50 | 200 | | V _{CE} =10V, I _C =10mA |
| | | 45 | - | | V _{CE} =10V, I _C =50mA |
| | | 40 | - | | V _{CE} =10V, I _C =100mA |
| Collector-Emitter Saturation Voltage | V _{CE(sat)} | - | 0.4 | V | I _C =1mA, I _B =0.1mA |
| | | - | 0.5 | | I _C =10mA, I _B =1mA |
| | | - | 0.75 | | I _C =50mA, I _B =5mA |
| Base-Emitter Saturation Voltage | V _{BE(sat)} | - | 0.75 | V | I _C =10mA, I _B =1mA |
| Transition Frequency | f _T | 20 | - | MHz | V _{CE} =10V, I _C =10mA, f=100MHz |
| Collector Capacitance | C _C | - | 7 | pF | V _{CB} =20V, I _E =0, f=1MHz |
| Emitter Capacitance | C _E | - | 130 | pF | V _{CB} =0.5V, I _E =0, f=1MHz |

CHARACTERISTICS CURVE

