

ZENER VOLTAGE RANGE: 2.4 --- V PEAK PULSE POWER:300mW

Low zener impedance
 High Stability and High Reliability
 Ideally suited for automated assembly processes
 The Plastic Material Carries U/L Recognition 94V-0.

MECHANICAL DATA
 Case:SOT-23 Small Outline Plastic Package
 Polarity: Color band denotes cathode end
 Mounting Position: Any

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

| Parameters | SYMBOLS | VALUE | UNITS |
|--|-----------|--------------|-------|
| Power Dissipation | P_D | 300 | mW |
| Forward Voltage @IF=10mA | V_f | 0.9 | V |
| Storage temperature range | T_{STG} | -65 to + 150 | |
| Thermal resistance junction to ambient air Warmewider stand Sperschicht –umgebende Luft | R_{thA} | 417 | K/W |

Note: 1.Valid provided that device terminals are kept at ambient temperature.

2.Test with pulse, period=5ms, pulse width=300us.

3.f=1KHz

($T_A=25^\circ C$ unless otherwise specified)

| | | | | | | | |
|--|--|-----------------------------|----------|----------------------------------|-----------------|-------------------------|-------------|
| | | ZenerVoltage Range (Note 2) | | Maximum Zener Impedance (Note 3) | | Maximum Reverse Current | |
| | | $V_Z@I_{ZT}$ | I_{ZT} | $Z_{ZT}@I_{ZT}$ | $Z_{ZK}@I_{ZK}$ | I_{ZK} | I_R V_R |

| | | | | | | | | | | | | |
|-----------|----|-----|------|------|---|----|-----|-----|-----|-----|------|-----|
| BZX84C5V6 | Z3 | 5.6 | 5.2 | 6.0 | 5 | 40 | 400 | 1.0 | 1 | 2.0 | -2.0 | 2.5 |
| BZX84C6V2 | Z4 | 6.2 | 5.8 | 6.6 | 5 | 10 | 150 | 1.0 | 3 | 4.0 | 0.4 | 3.7 |
| BZX84C6V8 | Z5 | 6.8 | 6.4 | 7.2 | 5 | 15 | 80 | 1.0 | 2 | 4.0 | 1.2 | 4.5 |
| BZX84C7V5 | Z6 | 7.5 | 7.0 | 7.9 | 5 | 15 | 80 | 1.0 | 1 | 5.0 | 2.5 | 5.3 |
| BZX84C8V2 | Z7 | 8.2 | 7.7 | 8.7 | 5 | 15 | 80 | 1.0 | 0.7 | 5.0 | 3.2 | 6.2 |
| BZX84C9V1 | Z8 | 9.1 | 8.5 | 9.6 | 5 | 15 | 100 | 1.0 | 0.5 | 6.0 | 3.8 | 7.0 |
| BZX84C10 | Z9 | 10 | 9.4 | 10.6 | 5 | 20 | 150 | 1.0 | 0.2 | 7.0 | 4.5 | 8.0 |
| BZX84C11 | Y1 | 11 | 10.4 | 11.6 | 5 | 20 | 150 | 1.0 | 0.1 | 8.0 | 5.4 | 9.0 |

BZX3

- Notes: 1. Valid provided that device terminals are kept at ambient temperature.
2. Tested with pulses, period=5ms,pulse width =300 s.
3. f = 1kHz

