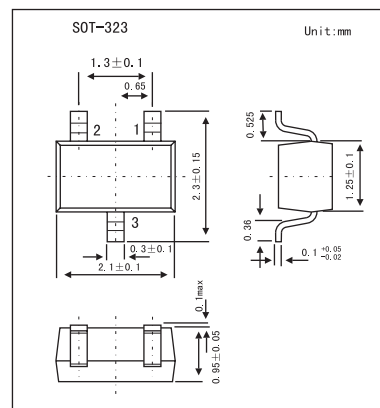
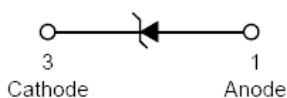


## 200mW Surface Mount Zener Diode BZX84C4V7W

### ■ Features

- Planar Die Construction
- 200mW Power Dissipation
- Ultra-Small Surface Mount Package



### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter                                   | Symbol          | Rating      | Unit             |
|---------------------------------------------|-----------------|-------------|------------------|
| Forward Voltage @ $I_F = 10\text{mA}$       | $V_F$           | 0.9         | V                |
| Power Dissipation                           | $P_D$           | 200         | mW               |
| Thermal Resistance, Junction to Ambient Air | $R_{\theta JA}$ | 625         | K/W              |
| Operating and Storage Temperature Range     | $T_J, T_{STG}$  | -65 to +150 | $^\circ\text{C}$ |

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

| Type Number | Zener Voltage Range *1 |         |         |          | Maximum Zener Impedance*2 |                   |          | Maximum Reverse Current *1 |         | Temperature Coefficient of Zener Voltage @ $I_{ZT} = 5\text{mA}$ (mV/ $^\circ\text{C}$ ) |     |
|-------------|------------------------|---------|---------|----------|---------------------------|-------------------|----------|----------------------------|---------|------------------------------------------------------------------------------------------|-----|
|             | $V_Z @ I_{ZT}$         |         |         | $I_{ZT}$ | $Z_{ZT} @ I_{ZT}$         | $Z_{ZK} @ I_{ZK}$ | $I_{ZK}$ | $I_R$                      | @ $V_R$ |                                                                                          |     |
|             | Nom (V)                | Min (V) | Max (V) | mA       | $\Omega$                  |                   | mA       | $\mu\text{A}$              | V       | Min                                                                                      | Max |
| BZX84C4V7W  | 4.7                    | 4.4     | 5       | 5        | 80                        | 600               | 1        | 3                          | 2       | -3.5                                                                                     | 0.2 |

\*1. Short duration test pulse used to minimize self-heating effect.

\*2.  $f = 1\text{kHz}$ .

### ■ Marking

|         |     |
|---------|-----|
| Marking | KR1 |
|---------|-----|

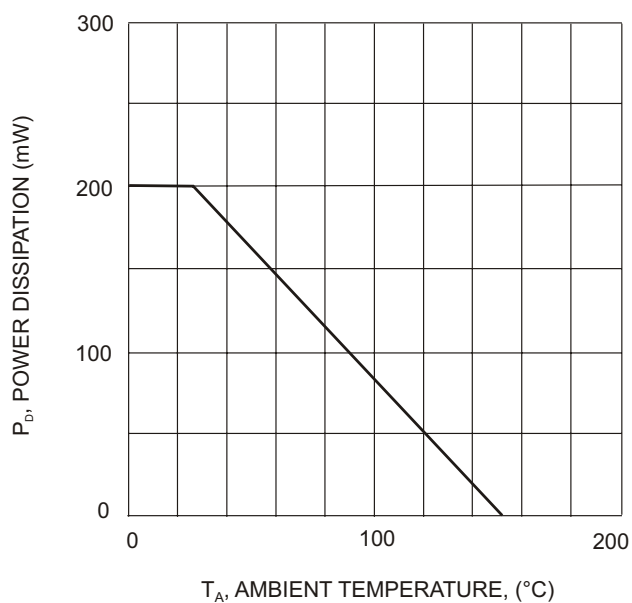
**BZX84C4V7W**

Fig. 1. Power Derating Curve

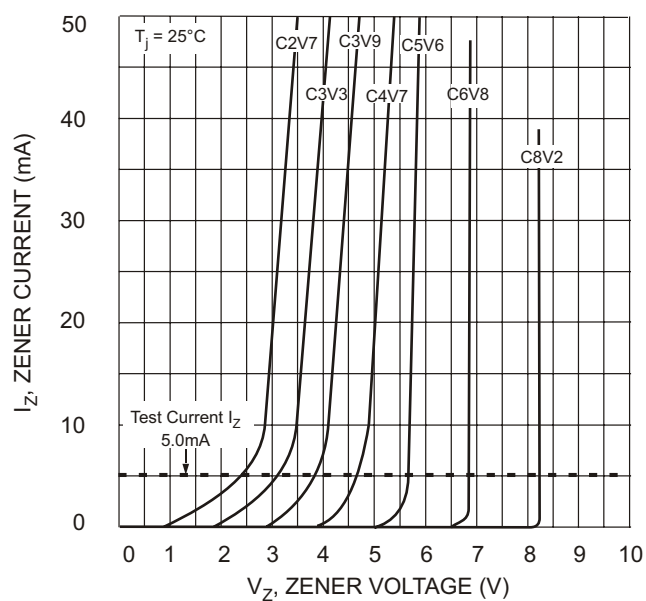


Fig. 2 Zener Breakdown Characteristics

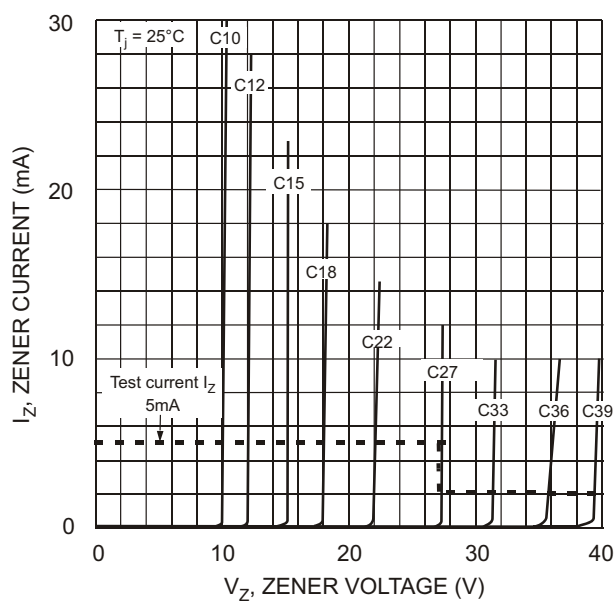


Fig. 3. Zener Breakdown Characteristics

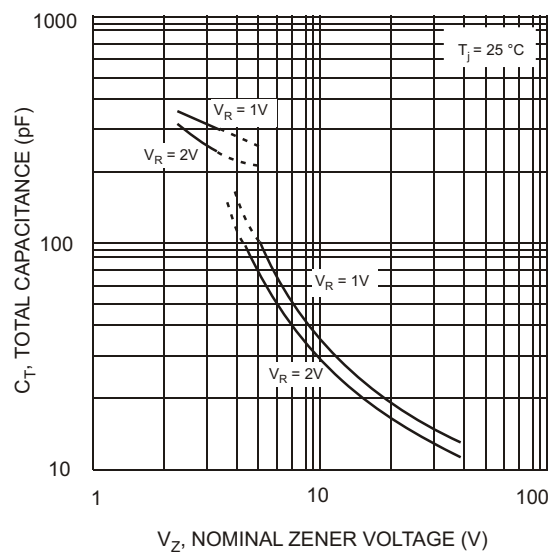


Fig. 4. Total Capacitance vs Nominal Zener Voltage