

## SILICON PLANAR ZENER DIODES

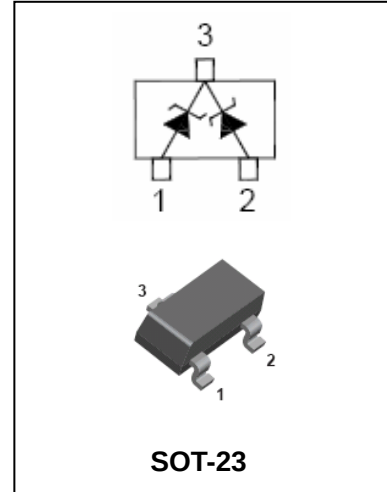
### BZX84C2V4CC-BZX84C75CC

#### FEATURES

- Zener breakdown voltage range-2.4V to 75V.
- Package designed for optimal automated board assembly.
- Small package size for high density applications.



Lead-free



#### ORDERING INFORMATION

| Type No.               | Marking            | Package Code |
|------------------------|--------------------|--------------|
| BZX84C2V4CC-BZX84C75CC | See Table on page2 | SOT-23       |

#### MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Parameter                                             | Symbol          | Value       | Unit |
|-------------------------------------------------------|-----------------|-------------|------|
| Power Dissipation                                     | $P_d$           | 350         | mW   |
| Thermal Resistance, Junction to Ambient <sup>1)</sup> | $R_{\theta JA}$ | 417         | °C/W |
| Operating and Storage Temperature Range               | $T_j, T_{stg}$  | -65 to +150 | °C   |

<sup>1)</sup>Alumina=0.4\*0.3\*0.024 in,99.5% alumina

# Diode Semiconductor Korea

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### BZX84C2V4CC-BZX84C75CC

Electrical Characterisilcs @ Ta=25°C unless otherwise specified, V<sub>F</sub><0.9V at I<sub>F</sub>=10

| Type        | Marking<br>Code | Zener Voltage Range <sup>1)</sup> |     |      |                      | Dynamic Resistance               | Reverse Leakage Current      |                      |
|-------------|-----------------|-----------------------------------|-----|------|----------------------|----------------------------------|------------------------------|----------------------|
|             |                 | Min                               | Nom | Max  | I <sub>ZT</sub> (mA) | Z <sub>zT</sub> Max.( $\Omega$ ) | I <sub>R</sub> Max( $\mu$ A) | atV <sub>R</sub> (V) |
| BZX84C2V4CC | JH              | 2.2                               | 2.4 | 2.6  | 5                    | 100                              | 50                           | 1                    |
| BZX84C2V7CC | JJ              | 2.5                               | 2.7 | 2.9  | 5                    | 100                              | 20                           | 1                    |
| BZX84C3V0CC | JK              | 2.8                               | 3   | 3.2  | 5                    | 95                               | 10                           | 1                    |
| BZX84C3V3CC | JM              | 3.1                               | 3.3 | 3.5  | 5                    | 95                               | 5                            | 1                    |
| BZX84C3V6CC | JN              | 3.4                               | 3.6 | 3.8  | 5                    | 90                               | 5                            | 1                    |
| BZX84C3V9CC | JP              | 3.7                               | 3.9 | 4.1  | 5                    | 90                               | 3                            | 1                    |
| BZX84C4V3CC | JR              | 4                                 | 4.3 | 4.6  | 5                    | 90                               | 3                            | 1                    |
| BZX84C4V7CC | JX              | 4.4                               | 4.7 | 5    | 5                    | 80                               | 3                            | 2                    |
| BZX84C5V1CC | JY              | 4.8                               | 5.1 | 5.4  | 5                    | 60                               | 2                            | 2                    |
| BZX84C5V6CC | JZ              | 5.2                               | 5.6 | 6    | 5                    | 40                               | 1                            | 2                    |
| BZX84C6V2CC | KA              | 5.8                               | 6.2 | 6.6  | 5                    | 10                               | 3                            | 4                    |
| BZX84C6V8CC | KB              | 6.4                               | 6.8 | 7.2  | 5                    | 15                               | 2                            | 4                    |
| BZX84C7V5CC | KC              | 7                                 | 7.5 | 7.9  | 5                    | 15                               | 1                            | 5                    |
| BZX84C8V2CC | KD              | 7.7                               | 8.2 | 8.7  | 5                    | 15                               | 0.7                          | 5                    |
| BZX84C9V1CC | KE              | 8.5                               | 9.1 | 9.6  | 5                    | 15                               | 0.5                          | 6                    |
| BZX84C10CC  | KF              | 9.4                               | 10  | 10.6 | 5                    | 20                               | 0.2                          | 7                    |
| BZX84C11CC  | KH              | 10.4                              | 11  | 11.6 | 5                    | 20                               | 0.1                          | 8                    |
| BZX84C12CC  | KJ              | 11.4                              | 12  | 12.7 | 5                    | 25                               | 0.1                          | 8                    |
| BZX84C13CC  | KK              | 12.4                              | 13  | 14.1 | 5                    | 30                               | 0.1                          | 8                    |
| BZX84C15CC  | KM              | 14.3                              | 15  | 15.8 | 5.0                  | 30                               | 0.1                          | 10.5                 |
| BZX84C16CC  | KN              | 15.3                              | 16  | 17.1 | 5                    | 40                               | 0.05                         | 11.2                 |
| BZX84C18CC  | KP              | 16.8                              | 18  | 19.1 | 5                    | 45                               | 0.05                         | 12.6                 |

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| Type       | Marking<br>Code | Zener Voltage Range <sup>1)</sup> |     |      |                      | Dynamic Resistance               | Reverse Leakage Current      |                      |
|------------|-----------------|-----------------------------------|-----|------|----------------------|----------------------------------|------------------------------|----------------------|
|            |                 | Min                               | Nom | Max  | I <sub>ZT</sub> (mA) | Z <sub>ZT</sub> Max.( $\Omega$ ) | I <sub>R</sub> Max( $\mu$ A) | atV <sub>R</sub> (V) |
| BZX84C20CC | KR              | 18.8                              | 20  | 21.2 | 5                    | 55                               | 0.05                         | 14                   |
| BZX84C22CC | KX              | 20.8                              | 22  | 23.3 | 5                    | 55                               | 0.05                         | 15.4                 |
| BZX84C24CC | KY              | 22.8                              | 24  | 25.6 | 5                    | 70                               | 0.05                         | 16.8                 |
| BZX84C27CC | KZ              | 25.1                              | 27  | 28.9 | 2                    | 80                               | 0.05                         | 18.9                 |
| BZX84C30CC | MA              | 28                                | 30  | 32   | 2                    | 80                               | 0.05                         | 21                   |
| BZX84C33CC | MB              | 31                                | 33  | 35   | 2                    | 80                               | 0.05                         | 23.1                 |
| BZX84C36CC | MC              | 34                                | 36  | 38   | 2                    | 90                               | 0.05                         | 25.2                 |
| BZX84C39CC | MD              | 37                                | 39  | 41   | 2                    | 130                              | 0.05                         | 27.3                 |
| BZX84C43CC | ME              | 40                                | 43  | 46   | 2                    | 150                              | 0.05                         | 30.1                 |
| BZX84C47CC | MF              | 44                                | 47  | 50   | 2                    | 170                              | 0.05                         | 32.9                 |
| BZX84C51CC | MH              | 48                                | 51  | 54   | 2                    | 180                              | 0.05                         | 35.7                 |
| BZX84C56CC | MJ              | 52                                | 56  | 60   | 2                    | 200                              | 0.05                         | 39.2                 |
| BZX84C62CC | MK              | 58                                | 62  | 66   | 2                    | 215                              | 0.05                         | 43.4                 |
| BZX84C68CC | MM              | 64                                | 68  | 72   | 2                    | 240                              | 0.05                         | 47.6                 |
| BZX84C75CC | MN              | 70                                | 75  | 79   | 2                    | 255                              | 0.05                         | 52.5                 |

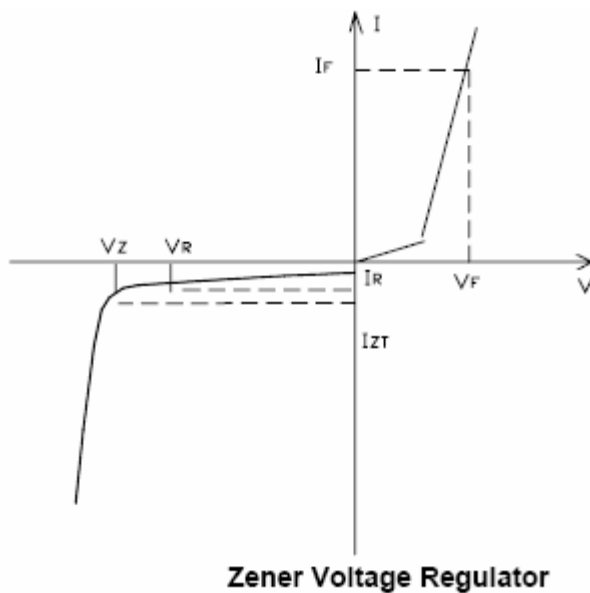
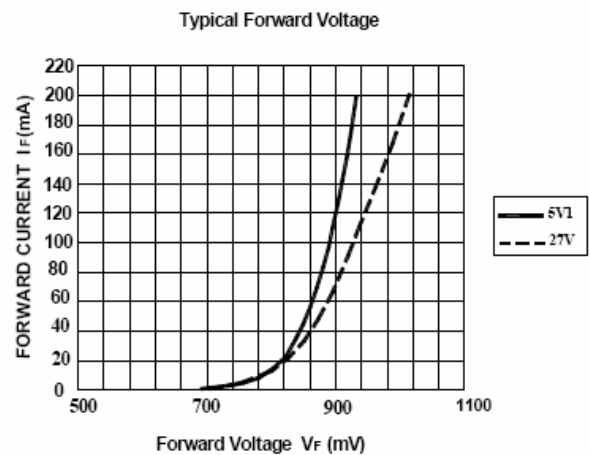
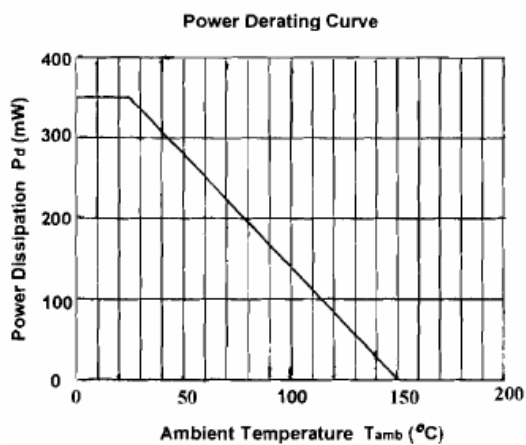
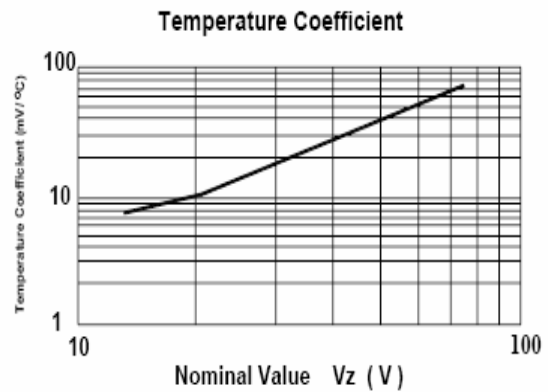
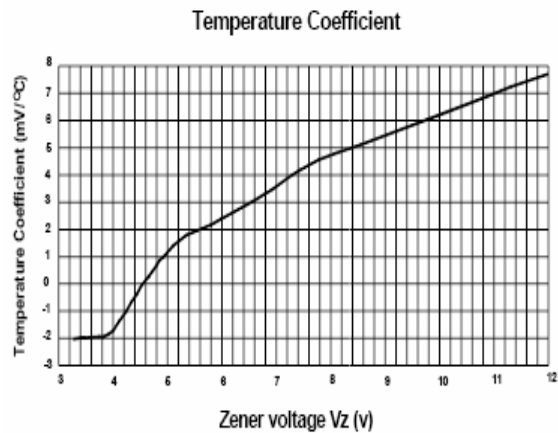
<sup>1)</sup>Tested with pulses tp=20ms

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TYPICAL CHARACTERISTICS @  $T_a=25^{\circ}\text{C}$  unless otherwise specified

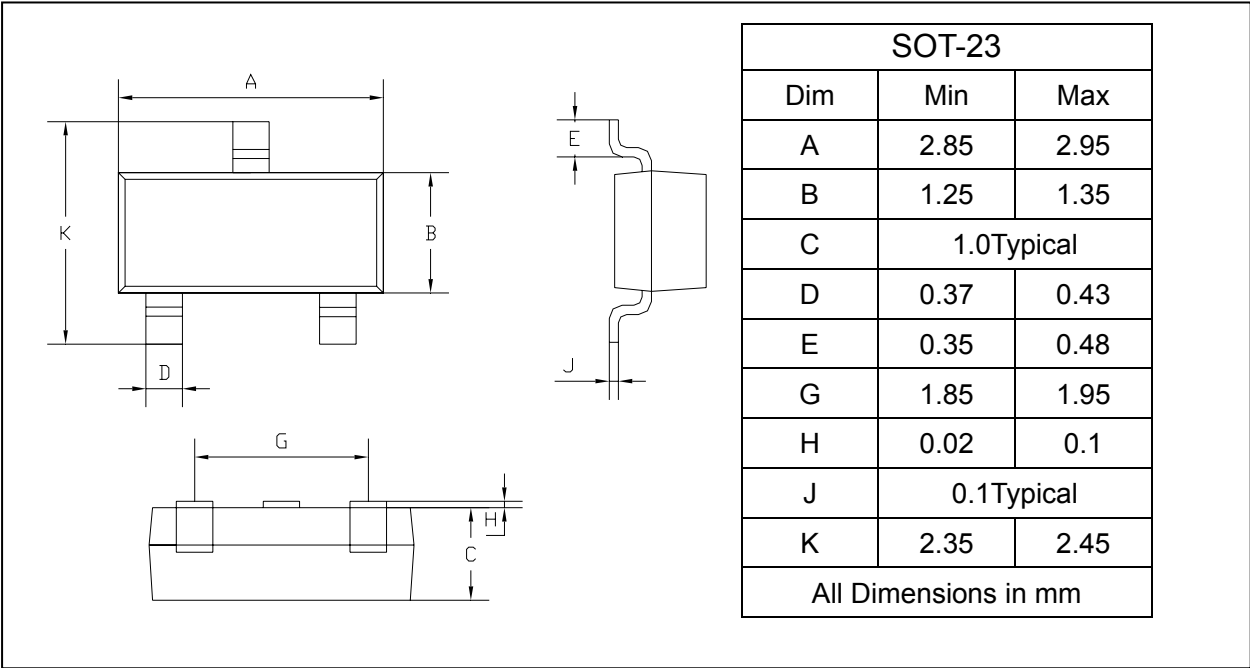


SILCON PLANAR ZENER DIODES  
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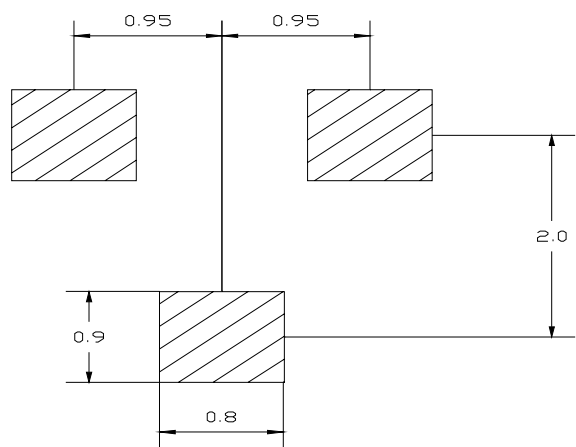
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

|                        |         |                |
|------------------------|---------|----------------|
| Device                 | Package | Shipping       |
| BZX84C2V4CC-BZX84C75CC | SOT-23  | 3000/Tape&Reel |