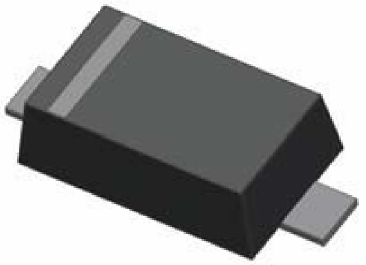
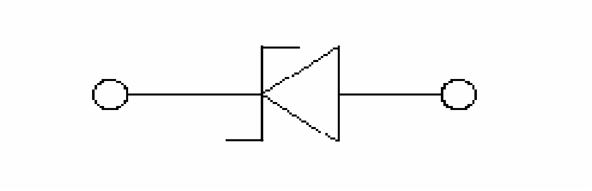
# BZX584C2V4 THRU BZX584C75V

## Zener Diode



### Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Zener Voltage 2.4V~47V



### Mechanical Data

- **Package**: SOD523
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

### ■Maximum Ratings (Ta=25 Unless otherwise specified Å

| PARAMETER | SYMBOL | UNIT | VALUE |
|---|---|---|---|
| Power Dissipation at Ta=25 | $P_D$ | mW | 200 |
| Storage Temperature Range | $T_{stg}$ | °C | -55~+150 |
| Maximum Junction Temperature | $T_J$ | °C | -55~+150 |
| Maximum Regulator Current | $I_{ZM}$ | mA | $P_D$/ $V_z$ |
| Forward Voltage(@10mA) | $V_F$ | V | 1.0 |
| Thermal Resistance Junction to Ambient Air* | $R_{θJA}$ | °C /W | 625 |

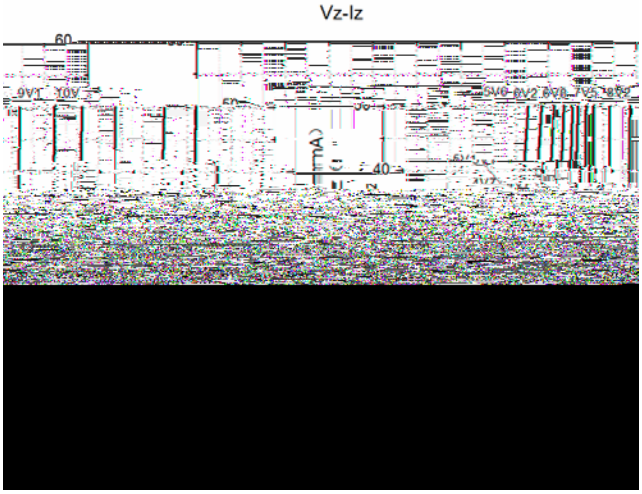
### ■Ordering Information (Example)

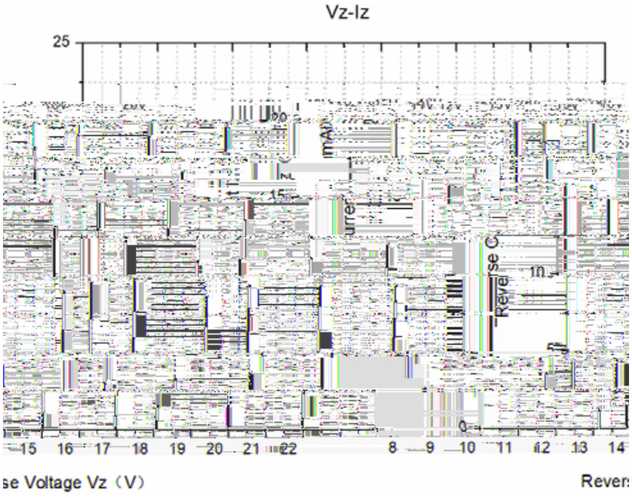
| PREFERED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---|---|---|---|---|---|---|
| BZX584C2V4 THRU BZX584C75V | F2 | Approxima55 0.002 | 55 ĻM | | | |

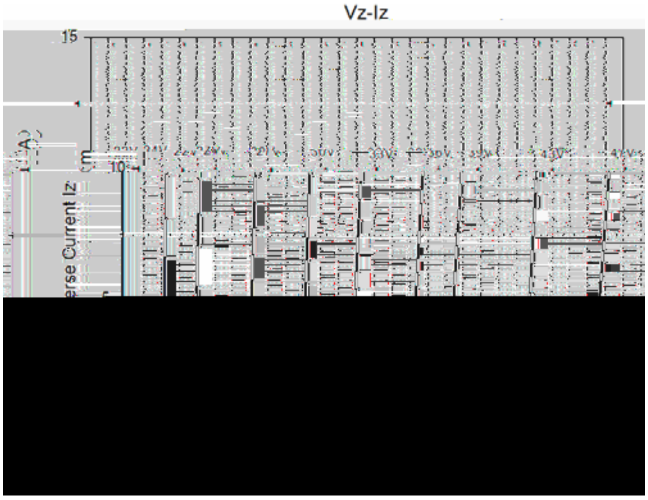
■**Electrical Characteristics** ÄTa=25 Unless otherwise specified Å

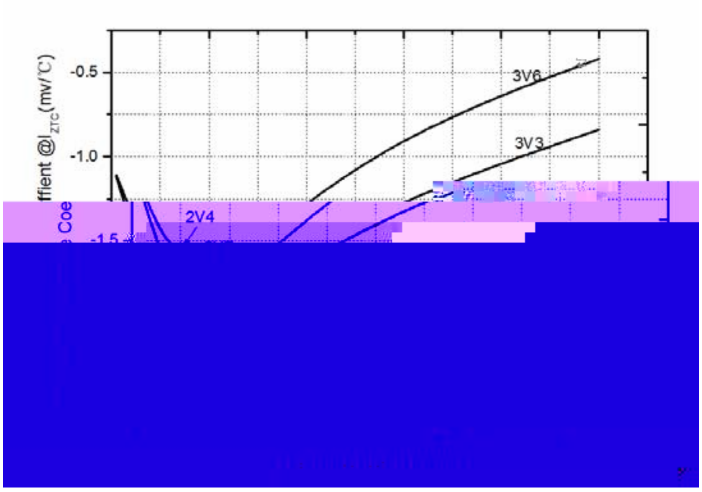
| Type Number | Device Marking | $V_z$ at IzT (V) | | | $Z_{zt}$(Ω) | | $Z_{zk}$(Ω) | | $I_R$(μA)@$V_R$ | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | min. | typ. | max. | $I_{ZT}$(mA) | max. | $I_{zk}$(mA) | max. | max | $V_R$ |

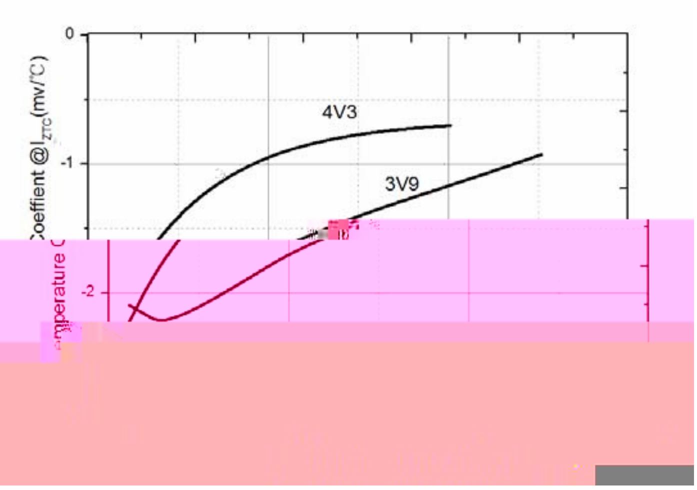
## ■ **Characteristics** (Typical)

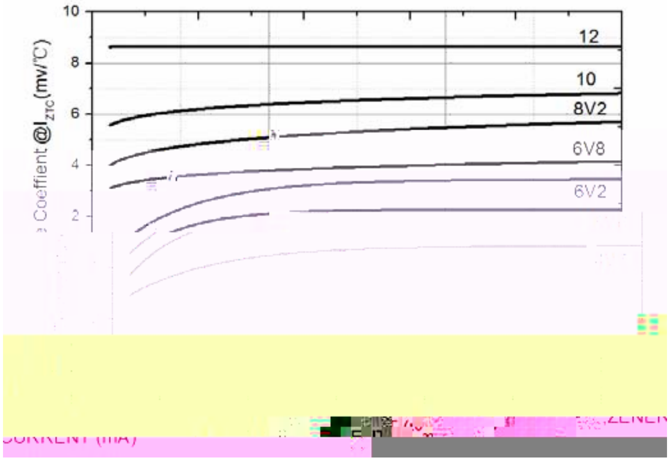


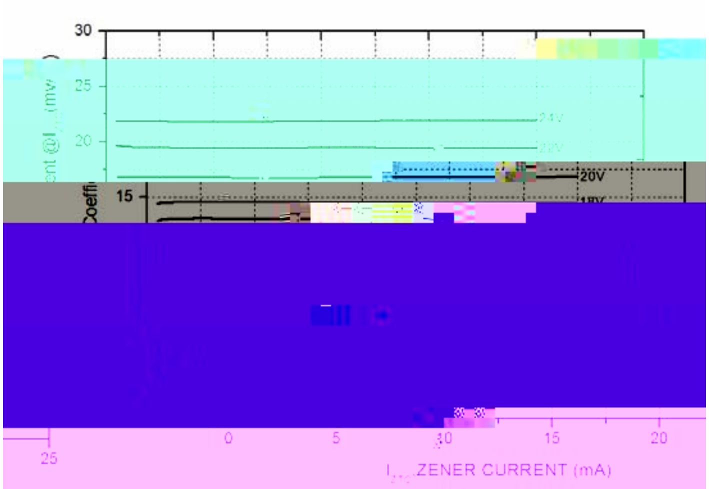


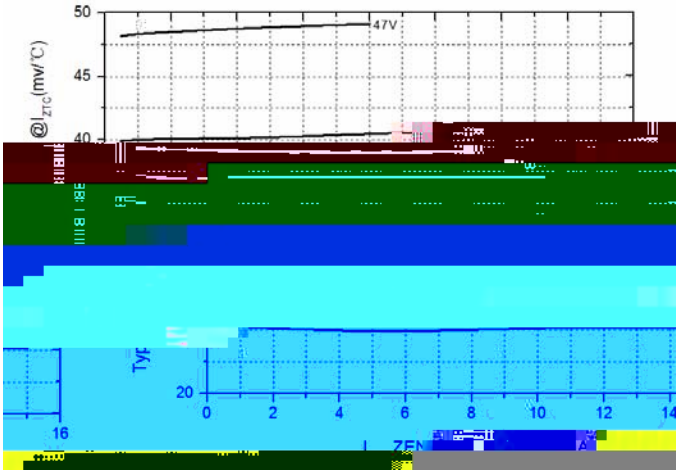


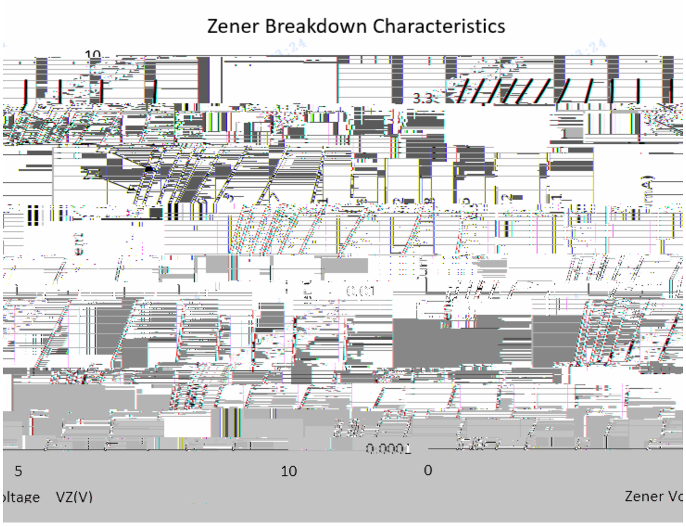






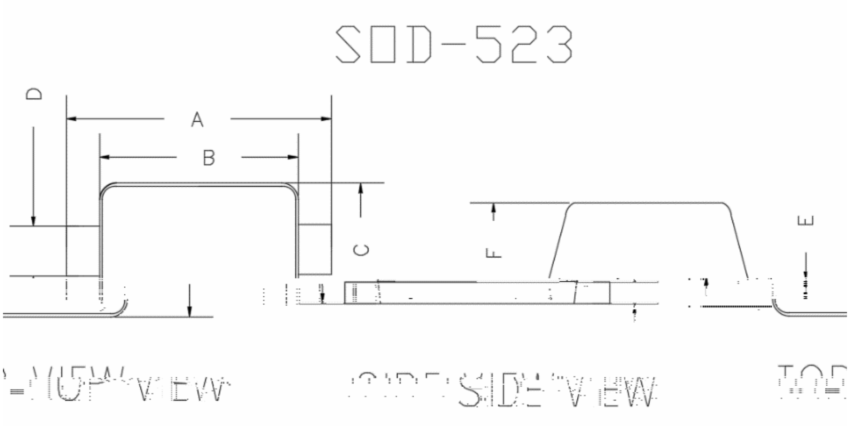

30
25
20
15
24V
22V
20V
18V
Coeffi
0
5
10
15
20
25
I ZENER CURRENT (mA)


50
45
40
47V
@I ZTC (mv/°C)
Typ
20
16
0
2
4
6
8
10
12
14
ZEN


Zener Breakdown Characteristics
10
3.3
0.01
0.0001
5
10
0
Voltage VZ(V)
Zener Vo

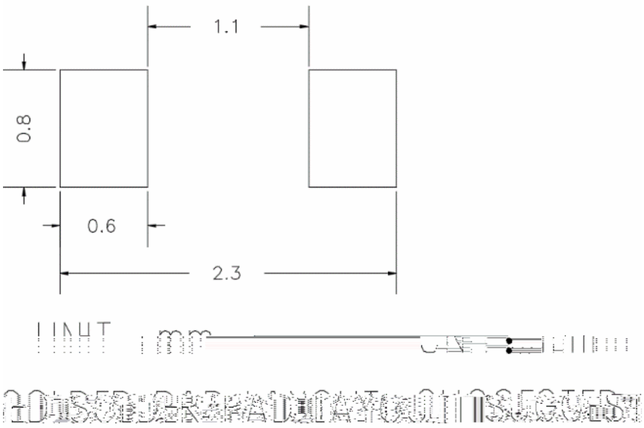

Zener Breakdown Characteristics
10
1
0.001
0.0001
Current
40
45
50
5
10
15
20
25
30
35
Zener Voltage VZ(V)

## ■ Outline Dimensions



| DIMENSIONS | | | | |
|---|---|---|---|---|
| DIM | INCHES | | MM | |
| | MIN | MAX | MN | MAX |
| A | 0.059 | 0.067 | 1.500 | 1.700 |
| B | 0.043 | 0.051 | 1.100 | 1.300 |
| C | 0.028 | 0.035 | 0.700 | 0.900 |
| D | 0.010 | 0.014 | 0.250 | 0.350 |
| E | 0.002 | 0.008 | 0.050 | 0.200 |
| F | 0.020 | 0.028 | 0.500 | 0.700 |

## ■ Soldering Footprint



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