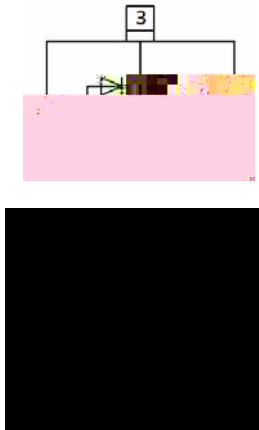


## Small Signal Zener Diode



**SOT-23**

### Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- Zener Voltage 2.4V~47V
- $V_Z$ -tolerance for both diodes in one case is  $\leq 5\%$
- Part no. with suffix "Q" means AEC-Q101 qualified

### Applications

- General regulation functions

### Mechanical Data

- **Case:** SOT-23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

### ■Limiting Values (Absolute Maximum Rating, $T_A=25^\circ\text{C}$ Unless otherwise specified)

| Characteristic                              | Symbol          | Value       | Units              |
|---------------------------------------------|-----------------|-------------|--------------------|
| Power Dissipation                           | $P_{D[1]}$      | 300         | mW                 |
| Maximum Forward Voltage $I_F=10\text{mA}$   | $V_F$           | 0.9         | V                  |
| Maximum Regulator Current                   | $I_{ZM[1]}$     | $P_D / V_Z$ | mA                 |
| Thermal Resistance from Junction to Ambient | $R_{\theta JA}$ | 417         | $^\circ\text{C/W}$ |
| Storage Temperature Range                   | $T_{STG}$       | -55~+150    |                    |
| Operation Temperature                       | $T_J$           | -55~+150    |                    |

[1] Single diode loaded

### ■Ordering Information (Example)

| PREFERRED P/N           | PACKING CODE | UNIT WEIGHT(g)   | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|-------------------------|--------------|------------------|----------------------|-------------------------|----------------------------|---------------|
| DZ23C2V4Q THRU DZ23C47Q | F2           | Approximate 0.01 | 3000                 | 30000                   | 120000                     | 7" reel       |



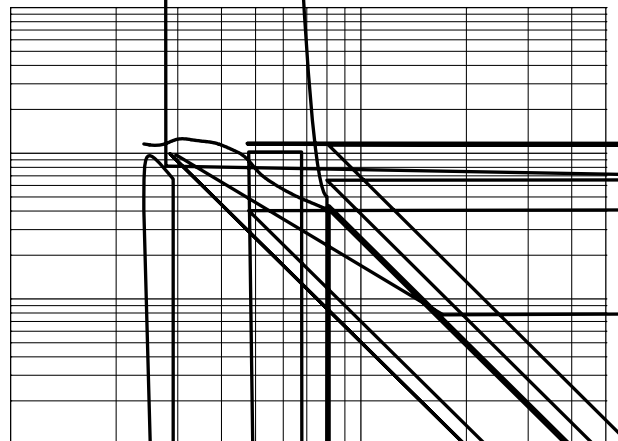
# DZ23C2V4Q THRU DZ23C47Q

■Electrical Characteristics     $T_a=25$     Unless otherwise specified

| Type Number | Device Marking | $V_z$ at $I_{zt}$ (V) | $I_{zt}$ | $Z_{zt}(\Omega)$ | $Z_{zk}(\Omega)$ | $I_R(\mu A)@V_R$ | Typical Temperature Coefficient@ I |
|-------------|----------------|-----------------------|----------|------------------|------------------|------------------|------------------------------------|
|             |                |                       |          |                  |                  |                  |                                    |

' = & 9 4 7 + 5 8 ' = & 4

v & K D U D F W H 7 U S V W D Ø V



6 6  
5 H Y

' H F

< D Q J ] K R X < D Q J M E H H Ø K Q W O R J L & F / V Z \ D Q J M L H F

**DZ23C2V4Q THRU DZ23C47Q**



## DZ23C2V4Q THRU DZ23C47Q

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