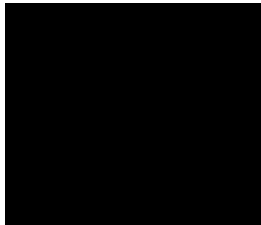


Small Signal Zener Diode



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 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, $T_a=25$ 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_{JA} | 417 | /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 |



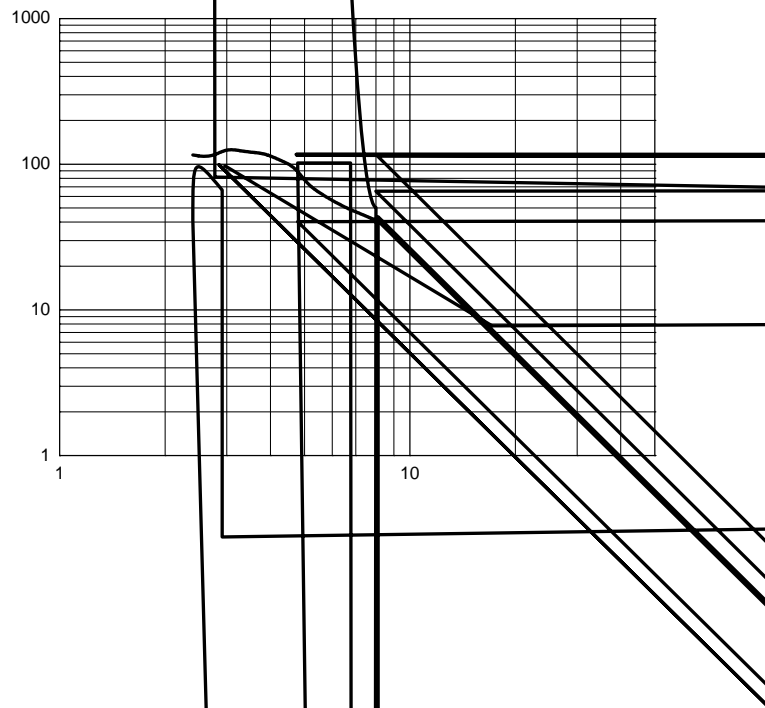
DZ23C2V4Q THRU DZ23C47Q

Electrical Characteristics $T_a=25$ Unless otherwise specified

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

DZ23C2V4Q THRU DZ23C47Q

Characteristics(Typical)



DZ23C2V4Q THRU DZ23C47Q



DZ23C2V4Q THRU DZ23C47Q

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