



Micro Commercial Components



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1EZ5.6D5
THRU
1EZ39D5

Features

- Excellent clamping capability
Vz-tolerance +/-5%
Low profile package
Glass passivated junction
Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

1.0 W Silicon
Zener Diodes
5.6 to 39 Volts

Mechanical Data

- Marking : Cathode Band and type number.
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings

Table with 4 columns: Parameter, Symbol, Value, Units. Rows include Peak Pulse Power Dissipation, Junction Temperature, and Storage Temperature Range.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Unit. Row includes Maximum Forward Voltage @ IF=200mA.

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

DO-41

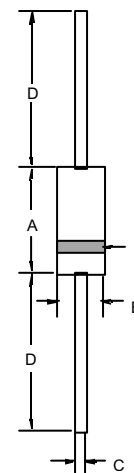


Table titled DIMENSIONS with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A, B, C, and D correspond to the dimensions in the diagram.

1EZ5.6D5 thru 1EZ39D5

| MCC PART NUMBER | ZENER VOLTAGE @TEST CURRENT ^(1,2) | | MAXIMUM ZENER IMPEDANCE ⁽³⁾ | | | LEAKAGE CURRENT | | I _{ZM} ⁽²⁾ mA |
|-----------------|--|-----------------|--|-----------------|-----------------|-----------------|----------------|--------------------------------------|
| | V _Z | I _{ZT} | Z _{ZT} | Z _{ZK} | I _{ZK} | I _R | V _R | |
| | V | mA | Ohms | Ohms | mA | uA | V | |
| 1EZ5.6D5 | 5.6 | 44.6 | 5.0 | 600 | 1 | 10 | 2.0 | 162 |
| 1EZ6.2D5 | 6.2 | 40.3 | 2.0 | 700 | 1 | 10 | 3.0 | 146 |
| 1EZ6.8D5 | 6.8 | 36.8 | 3.5 | 700 | 1 | 10 | 4.0 | 133 |
| 1EZ7.5D5 | 7.5 | 33.3 | 4.0 | 700 | 0.5 | 10 | 5.0 | 121 |
| 1EZ8.2D5 | 8.2 | 30.5 | 4.5 | 700 | 0.5 | 10 | 6.0 | 110 |
| 1EZ9.1D5 | 9.1 | 27.5 | 5.0 | 700 | 0.5 | 10 | 7.0 | 100 |
| 1EZ10D5 | 10 | 25 | 7.0 | 700 | 0.25 | 10 | 7.6 | 91 |
| 1EZ11D5 | 11 | 22.7 | 8.0 | 700 | 0.25 | 5 | 8.4 | 83 |
| 1EZ12D5 | 12 | 20.8 | 9.0 | 700 | 0.25 | 5 | 9.1 | 76 |
| 1EZ13D5 | 13 | 19.2 | 10 | 700 | 0.25 | 5 | 9.9 | 69 |
| 1EZ14D5 | 14 | 17.9 | 12 | 700 | 0.25 | 5 | 10.6 | 65 |
| 1EZ15D5 | 15 | 16.7 | 14 | 700 | 0.25 | 5 | 11.4 | 61 |
| 1EZ16D5 | 16 | 15.6 | 16 | 700 | 0.25 | 5 | 12.2 | 57 |
| 1EZ17D5 | 17 | 14.7 | 18 | 750 | 0.25 | 5 | 13.0 | 53 |
| 1EZ18D5 | 18 | 13.9 | 20 | 750 | 0.25 | 5 | 13.7 | 50 |
| 1EZ19D5 | 19 | 13.2 | 21 | 750 | 0.25 | 5 | 14.4 | 47 |
| 1EZ20D5 | 20 | 12.5 | 22 | 750 | 0.25 | 5 | 15.2 | 45 |
| 1EZ22D5 | 22 | 11.4 | 23 | 750 | 0.25 | 5 | 16.7 | 41 |
| 1EZ24D5 | 24 | 10.4 | 25 | 750 | 0.25 | 5 | 18.2 | 38 |
| 1EZ27D5 | 27 | 9.3 | 35 | 750 | 0.25 | 5 | 20.6 | 34 |
| 1EZ30D5 | 30 | 8.3 | 40 | 1000 | 0.25 | 5 | 22.5 | 30 |
| 1EZ33D5 | 33 | 7.6 | 45 | 1000 | 0.25 | 5 | 25.1 | 27 |
| 1EZ36D5 | 36 | 6.9 | 50 | 1000 | 0.25 | 5 | 27.4 | 25 |
| 1EZ39D5 | 39 | 6.4 | 60 | 1000 | 0.25 | 5 | 29.7 | 23 |

- 1) Based on DC-measurement at thermal equilibrium while maintaining the lead temperature(T_L) at 25C
9.5mm (3/8") from the diode body.
- 2) Maximum rated zener current I_{ZM} measured at ambient temperature, T_A=100C



TM

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Ordering Information :

| Device | Packing |
|----------------|------------------------------|
| Part Number-TP | Tape&Reel: 5Kpcs/Reel |
| Part Number-AP | Ammo Packing: 5Kpcs/Ammo Box |
| Part Number-BP | Bulk: 50Kpcs/Carton |

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