

# 2EZ220D5 - 2EZ330D5

# SILICON ZENER DIODES

**$V_Z$  : 220 - 330 Volts**

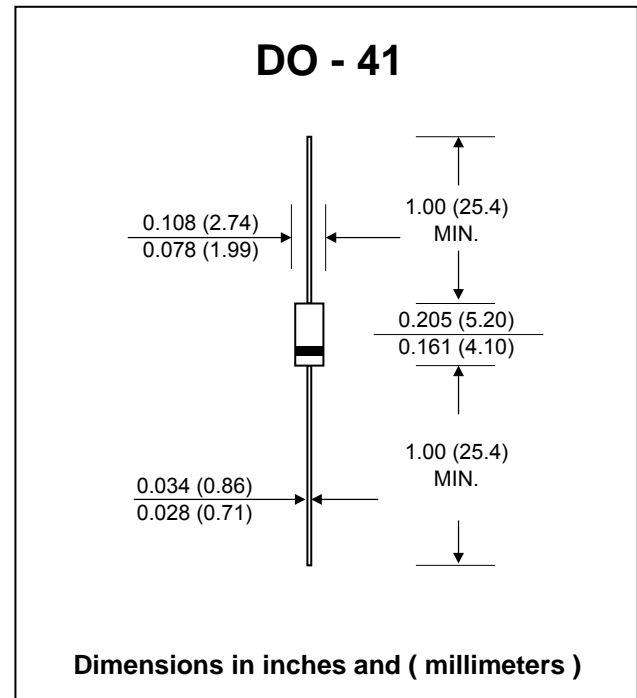
**$P_D$  : 2 Watts**

### FEATURES :

- \* Complete Voltage Range 220 to 330 Volts
- \* High peak reverse power dissipation
- \* High reliability
- \* Low leakage current
- \*  $\pm 5\%$  tolerance
- \* **Pb / RoHS Free**

### MECHANICAL DATA

- \* Case : DO-41 Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.339 gram



### MAXIMUM RATINGS Rating at 25 °C ambient temperature unless otherwise specified

| Rating   | Symbol    | Value         | Unit             |
|--|-----------|---------------|------------------|
| DC Power Dissipation at $T_L = 75\text{ }^\circ\text{C}$ (Note1) | $P_D$     | 2.0           | W                |
| Maximum Forward Voltage at $I_F = 200\text{ mA}$                 | $V_F$     | 2.0           | V                |
| Junction Temperature Range                                       | $T_J$     | - 55 to + 175 | $^\circ\text{C}$ |
| Storage Temperature Range  | $T_{STG}$ | - 55 to + 175 | $^\circ\text{C}$ |

### ELECTRICAL CHARACTERISTICS ( Rating at 25 °C ambient temperature unless otherwise specified )

| Type No.        | Nominal Zener Voltage |          | Maximum Zener Impedance |                   |          | Maximum Reverse Leakage Current |     | Maximum DC Zener Current |
|-----------------|-----------------------|----------|-------------------------|-------------------|----------|---------------------------------|-----|--------------------------|
|                 | $V_Z @ I_{ZT}$        | $I_{ZT}$ | $Z_{ZT} @ I_{ZT}$       | $Z_{ZK} @ I_{ZK}$ | $I_{ZK}$ | $I_R @ V_R$                     |     | $I_{ZM}$                 |
|                 | (V)                   | (mA)     | ( $\Omega$ )            | ( $\Omega$ )      | (mA)     | ( $\mu\text{A}$ )               | (V) | (mA)                     |
| <b>2EZ220D5</b> | 220                   | 2.0      | 2000                    | 8500              | 0.25     | 0.5                             | 167 | 8.0                      |
| <b>2EZ270D5</b> | 270                   | 1.6      | 2200                    | 8500              | 0.25     | 0.5                             | 205 | 6.7                      |
| <b>2EZ300D5</b> | 300                   | 1.5      | 2200                    | 9000              | 0.25     | 0.5                             | 228 | 5.9                      |
| <b>2EZ330D5</b> | 330                   | 1.4      | 2300                    | 9000              | 0.25     | 0.5                             | 250 | 5.4                      |

**Notes :**

- (1)  $T_L$  = Lead temperature at 3/8 " (9.5mm) from body.
- (2) Suffix " 5 " indicates  $\pm 5\%$  tolerance, suffix " 10 " indicates  $\pm 10\%$  tolerance.
- (3) " EZ " will be omitted in marking on the diode.