

GENERAL DATA — 500 mW DO-35 GLASS

1–1.3 Watt DO-41 Glass Zener Voltage Regulator Diodes GENERAL DATA APPLICABLE TO ALL SERIES IN THIS GROUP One Watt Hermetically Sealed Glass Silicon Zener Diodes

Specification Features:

- Complete Voltage Range — 3.3 to 100 Volts
- DO-41 Package
- Double Slug Type Construction
- Metallurgically Bonded Construction
- Oxide Passivated Die

Mechanical Characteristics:

CASE: Double slug type, hermetically sealed glass

MAXIMUM LEAD TEMPERATURE FOR SOLDERING PURPOSES: 230°C, 1/16" from case for 10 seconds

FINISH: All external surfaces are corrosion resistant with readily solderable leads

POLARITY: Cathode indicated by color band. When operated in zener mode, cathode will be positive with respect to anode

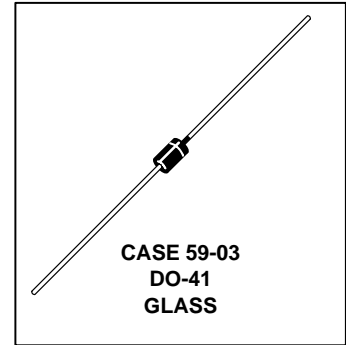
MOUNTING POSITION: Any

WAFER FAB LOCATION: Phoenix, Arizona

ASSEMBLY/TEST LOCATION: Seoul, Korea

**GENERAL
DATA
1–1.3 WATT
DO-41 GLASS**

**1 WATT
ZENER REGULATOR
DIODES
3.3–100 VOLTS**



MAXIMUM RATINGS

| Rating | Symbol | Value | Unit |
|--|----------------|-------------|------------------------------|
| DC Power Dissipation @ $T_A = 50^\circ\text{C}$ Derate above 50°C | P_D | 1 6.67 | Watt mW/ $^\circ\text{C}$ |
| Operating and Storage Junction Temperature Range | T_J, T_{stg} | -65 to +200 | $^\circ\text{C}$ |

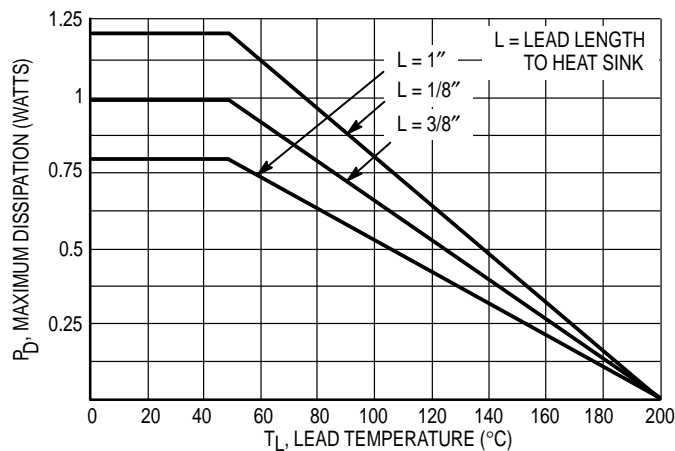


Figure 1. Power Temperature Derating Curve

GENERAL DATA — 500 mW DO-35 GLASS

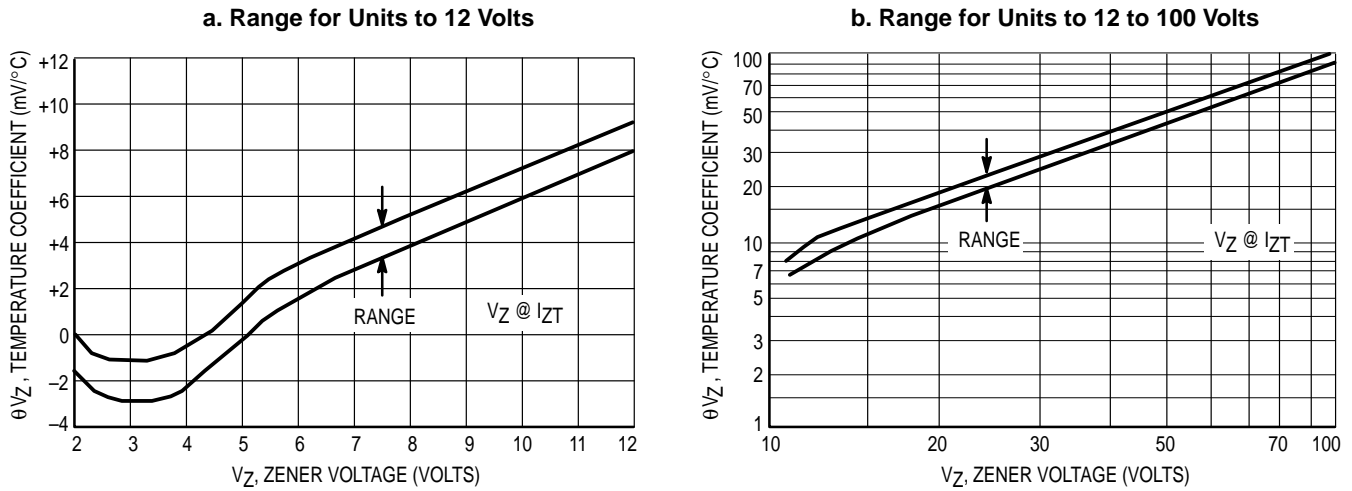


Figure 2. Temperature Coefficients
 (-55°C to +150°C temperature range; 90% of the units are in the ranges indicated.)

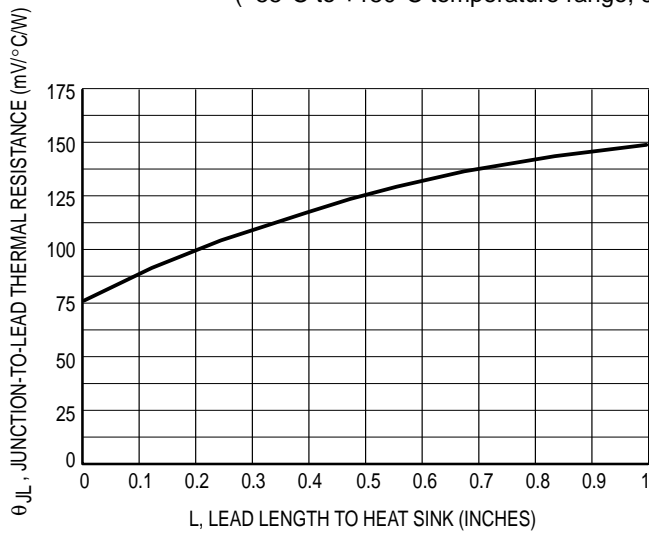


Figure 3. Typical Thermal Resistance versus Lead Length

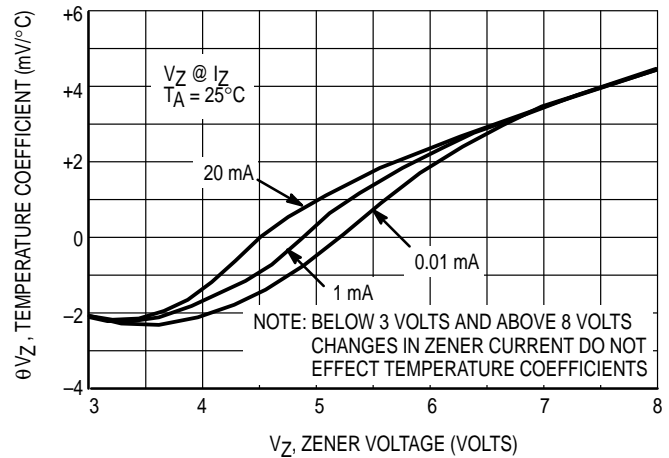
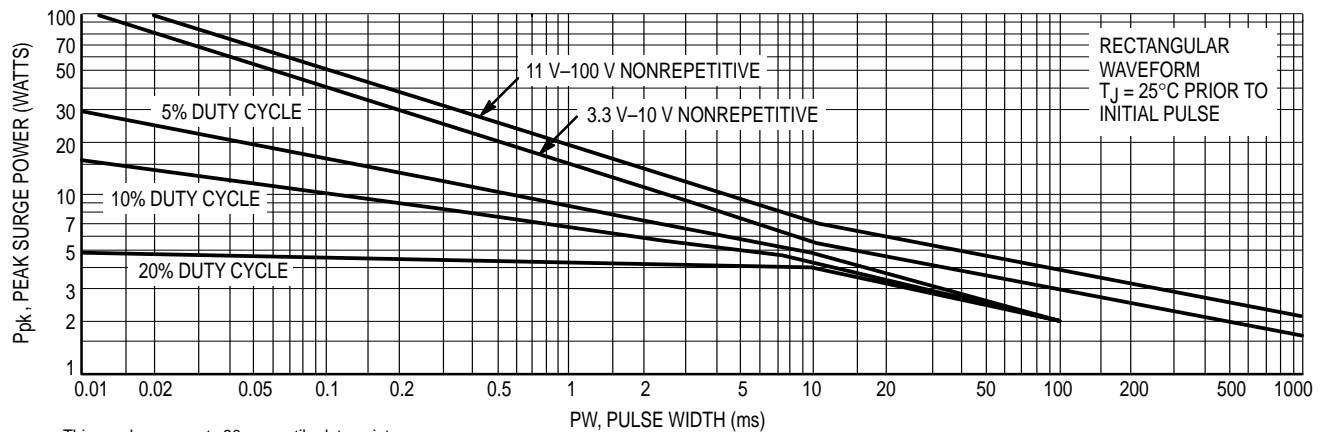


Figure 4. Effect of Zener Current



This graph represents 90 percentile data points.
 For worst case design characteristics, multiply surge power by 2/3.

Figure 5. Maximum Surge Power

GENERAL DATA — 500 mW DO-35 GLASS

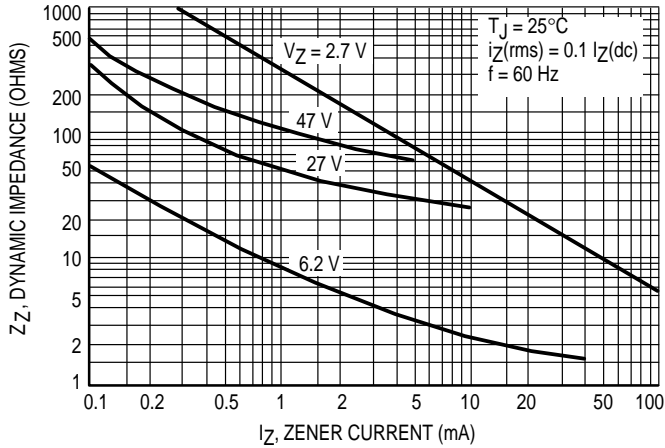


Figure 6. Effect of Zener Current on Zener Impedance

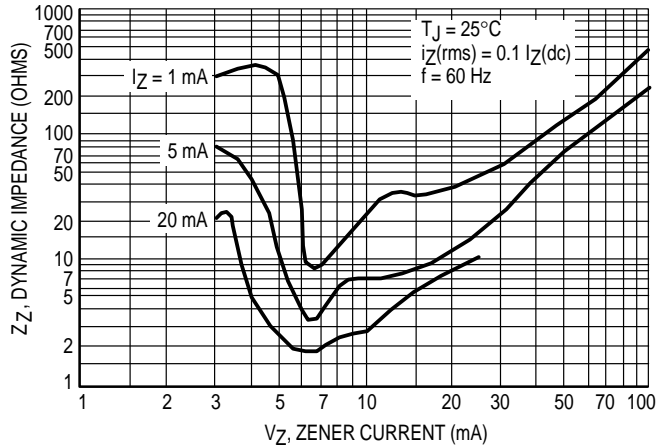


Figure 7. Effect of Zener Voltage on Zener Impedance

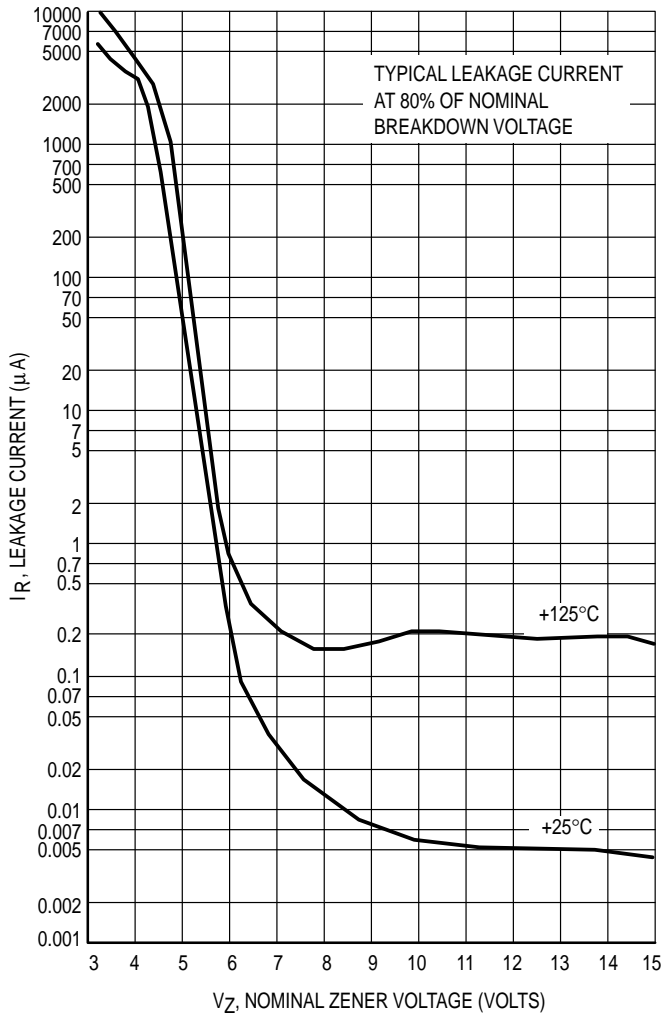


Figure 8. Typical Leakage Current

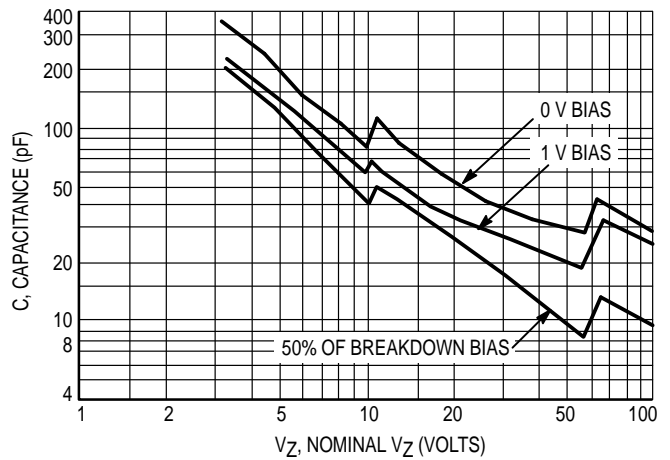


Figure 9. Typical Capacitance versus V_Z

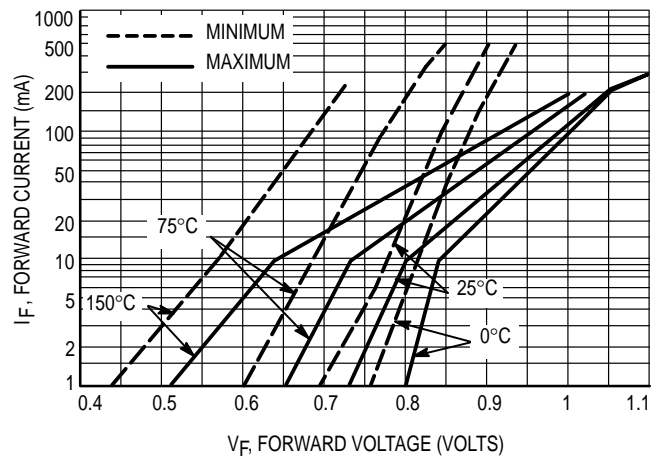


Figure 10. Typical Forward Characteristics

GENERAL DATA — 500 mW DO-35 GLASS

APPLICATION NOTE

Since the actual voltage available from a given zener diode is temperature dependent, it is necessary to determine junction temperature under any set of operating conditions in order to calculate its value. The following procedure is recommended:

Lead Temperature, T_L , should be determined from:

$$T_L = \theta_{LA} P_D + T_A.$$

θ_{LA} is the lead-to-ambient thermal resistance ($^{\circ}\text{C}/\text{W}$) and P_D is the power dissipation. The value for θ_{LA} will vary and depends on the device mounting method. θ_{LA} is generally 30 to 40 $^{\circ}\text{C}/\text{W}$ for the various clips and tie points in common use and for printed circuit board wiring.

The temperature of the lead can also be measured using a thermocouple placed on the lead as close as possible to the tie point. The thermal mass connected to the tie point is normally large enough so that it will not significantly respond to heat surges generated in the diode as a result of pulsed operation once steady-state conditions are achieved. Using the measured value of T_L , the junction temperature may be determined by:

$$T_J = T_L + \Delta T_{JL}.$$

ΔT_{JL} is the increase in junction temperature above the lead

temperature and may be found as follows:

$$\Delta T_{JL} = \theta_{JL} P_D.$$

θ_{JL} may be determined from Figure 3 for dc power conditions. For worst-case design, using expected limits of I_Z , limits of P_D and the extremes of T_J (ΔT_J) may be estimated. Changes in voltage, V_Z , can then be found from:

$$\Delta V = \theta_{VZ} \Delta T_J.$$

θ_{VZ} , the zener voltage temperature coefficient, is found from Figure 2.

Under high power-pulse operation, the zener voltage will vary with time and may also be affected significantly by the zener resistance. For best regulation, keep current excursions as low as possible.

Surge limitations are given in Figure 5. They are lower than would be expected by considering only junction temperature, as current crowding effects cause temperatures to be extremely high in small spots, resulting in device degradation should the limits of Figure 5 be exceeded.

GENERAL DATA — 500 mW DO-35 GLASS

*ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted) $V_F = 1.2\text{ V Max}$, $I_F = 200\text{ mA}$ for all types.

| JEDEC Type No. (Note 1) | Nominal Zener Voltage V_Z @ I_{ZT} Volts (Notes 2 and 3) | Test Current I_{ZT} mA | Maximum Zener Impedance (Note 4) | | | Leakage Current | | Surge Current @ $T_A = 25^\circ\text{C}$ i_r - mA (Note 5) |
|-------------------------|--|--------------------------|----------------------------------|--------------------------|-------------|-------------------------|-------------|--|
| | | | Z_{ZT} @ I_{ZT} Ohms | Z_{ZK} @ I_{ZK} Ohms | I_{ZK} mA | I_R $\mu\text{A Max}$ | V_R Volts | |
| 1N4728A | 3.3 | 76 | 10 | 400 | 1 | 100 | 1 | 1380 |
| 1N4729A | 3.6 | 69 | 10 | 400 | 1 | 100 | 1 | 1260 |
| 1N4730A | 3.9 | 64 | 9 | 400 | 1 | 50 | 1 | 1190 |
| 1N4731A | 4.3 | 58 | 9 | 400 | 1 | 10 | 1 | 1070 |
| 1N4732A | 4.7 | 53 | 8 | 500 | 1 | 10 | 1 | 970 |
| 1N4733A | 5.1 | 49 | 7 | 550 | 1 | 10 | 1 | 890 |
| 1N4734A | 5.6 | 45 | 5 | 600 | 1 | 10 | 2 | 810 |
| 1N4735A | 6.2 | 41 | 2 | 700 | 1 | 10 | 3 | 730 |
| 1N4736A | 6.8 | 37 | 3.5 | 700 | 1 | 10 | 4 | 660 |
| 1N4737A | 7.5 | 34 | 4 | 700 | 0.5 | 10 | 5 | 605 |
| 1N4738A | 8.2 | 31 | 4.5 | 700 | 0.5 | 10 | 6 | 550 |
| 1N4739A | 9.1 | 28 | 5 | 700 | 0.5 | 10 | 7 | 500 |
| 1N4740A | 10 | 25 | 7 | 700 | 0.25 | 10 | 7.6 | 454 |
| 1N4741A | 11 | 23 | 8 | 700 | 0.25 | 5 | 8.4 | 414 |
| 1N4742A | 12 | 21 | 9 | 700 | 0.25 | 5 | 9.1 | 380 |
| 1N4743A | 13 | 19 | 10 | 700 | 0.25 | 5 | 9.9 | 344 |
| 1N4744A | 15 | 17 | 14 | 700 | 0.25 | 5 | 11.4 | 304 |
| 1N4745A | 16 | 15.5 | 16 | 700 | 0.25 | 5 | 12.2 | 285 |
| 1N4746A | 18 | 14 | 20 | 750 | 0.25 | 5 | 13.7 | 250 |
| 1N4747A | 20 | 12.5 | 22 | 750 | 0.25 | 5 | 15.2 | 225 |
| 1N4748A | 22 | 11.5 | 23 | 750 | 0.25 | 5 | 16.7 | 205 |
| 1N4749A | 24 | 10.5 | 25 | 750 | 0.25 | 5 | 18.2 | 190 |
| 1N4750A | 27 | 9.5 | 35 | 750 | 0.25 | 5 | 20.6 | 170 |
| 1N4751A | 30 | 8.5 | 40 | 1000 | 0.25 | 5 | 22.8 | 150 |
| 1N4752A | 33 | 7.5 | 45 | 1000 | 0.25 | 5 | 25.1 | 135 |
| 1N4753A | 36 | 7 | 50 | 1000 | 0.25 | 5 | 27.4 | 125 |
| 1N4754A | 39 | 6.5 | 60 | 1000 | 0.25 | 5 | 29.7 | 115 |
| 1N4755A | 43 | 6 | 70 | 1500 | 0.25 | 5 | 32.7 | 110 |
| 1N4756A | 47 | 5.5 | 80 | 1500 | 0.25 | 5 | 35.8 | 95 |
| 1N4757A | 51 | 5 | 95 | 1500 | 0.25 | 5 | 38.8 | 90 |
| 1N4758A | 56 | 4.5 | 110 | 2000 | 0.25 | 5 | 42.6 | 80 |
| 1N4759A | 62 | 4 | 125 | 2000 | 0.25 | 5 | 47.1 | 70 |
| 1N4760A | 68 | 3.7 | 150 | 2000 | 0.25 | 5 | 51.7 | 65 |
| 1N4761A | 75 | 3.3 | 175 | 2000 | 0.25 | 5 | 56 | 60 |
| 1N4762A | 82 | 3 | 200 | 3000 | 0.25 | 5 | 62.2 | 55 |
| 1N4763A | 91 | 2.8 | 250 | 3000 | 0.25 | 5 | 69.2 | 50 |
| 1N4764A | 100 | 2.5 | 350 | 3000 | 0.25 | 5 | 76 | 45 |

*Indicates JEDEC Registered Data.

NOTE 1. TOLERANCE AND TYPE NUMBER DESIGNATION

The JEDEC type numbers listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$. C for $\pm 2\%$, D for $\pm 1\%$.

NOTE 2. SPECIALS AVAILABLE INCLUDE:

Nominal zener voltages between the voltages shown and tighter voltage tolerances.

For detailed information on price, availability, and delivery, contact your nearest Motorola representative.

NOTE 3. ZENER VOLTAGE (V_Z) MEASUREMENT

Motorola guarantees the zener voltage when measured at 90 seconds while maintaining the lead temperature (T_L) at $30^\circ\text{C} \pm 1^\circ\text{C}$, $3/8''$ from the diode body.

NOTE 4. ZENER IMPEDANCE (Z_Z) DERIVATION

The zener impedance is derived from the 60 cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} .

NOTE 5. SURGE CURRENT (i_r) NON-REPETITIVE

The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equivalent sine wave pulse of 1/120 second duration superimposed on the test current, I_{ZT} , per JEDEC registration; however, actual device capability is as described in Figure 5 of the General Data — DO-41 Glass.

GENERAL DATA — 500 mW DO-35 GLASS

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted.) ($V_F = 1.2\text{ V Max}$, $I_F = 200\text{ mA}$ for all types.)

| Type (Note 1) | Zener Voltage V_{ZT} (V) (Notes 2 and 3) | | Test Current I_{ZT} (mA) | Zener Impedance Z_Z (ohms) (Note 4) | | | Leakage Current (μA) | | Surge Current $T_A = 25^\circ\text{C}$ i_r (mA) (Note 5) |
|------------------|--|--------------|-------------------------------------|---|----------------------|------|---|--------------|--|
| | V_Z Min | V_Z Max | | Max at I_{ZT} | Max at I_Z (mA) | | V_R (V) | I_R Max | |
| BZX85C3V3RL | 3.1 | 3.5 | 80 | 20 | 400 | 1 | 1 | 60 | 1380 |
| BZX85C3V6RL | 3.4 | 3.8 | 60 | 15 | 500 | 1 | 1 | 30 | 1260 |
| BZX85C3V9RL | 3.7 | 4.1 | 60 | 15 | 500 | 1 | 1 | 5 | 1190 |
| BZX85C4V3RL | 4 | 4.6 | 50 | 13 | 500 | 1 | 1 | 3 | 1070 |
| BZX85C4V7RL | 4.4 | 5 | 45 | 13 | 600 | 1 | 1.5 | 3 | 970 |
| BZX85C5V1RL | 4.8 | 5.4 | 45 | 10 | 500 | 1 | 2 | 1 | 890 |
| BZX85C5V6RL | 5.2 | 6 | 45 | 7 | 400 | 1 | 2 | 1 | 810 |
| BZX85C6V2RL | 5.8 | 6.6 | 35 | 4 | 300 | 1 | 3 | 1 | 730 |
| BZX85C6V8RL | 6.4 | 7.2 | 35 | 3.5 | 300 | 1 | 4 | 1 | 660 |
| BZX85C7V5RL | 7 | 7.9 | 35 | 3 | 200 | 0.5 | 4.5 | 1 | 605 |
| BZX85C8V2RL | 7.7 | 8.7 | 25 | 5 | 200 | 0.5 | 5 | 1 | 550 |
| BZX85C9V1RL | 8.5 | 9.6 | 25 | 5 | 200 | 0.5 | 6.5 | 1 | 500 |
| BZX85C10RL | 9.4 | 10.6 | 25 | 7 | 200 | 0.5 | 7 | 0.5 | 454 |
| BZX85C11RL | 10.4 | 11.6 | 20 | 8 | 300 | 0.5 | 7.7 | 0.5 | 414 |
| BZX85C12RL | 11.4 | 12.7 | 20 | 9 | 350 | 0.5 | 8.4 | 0.5 | 380 |
| BZX85C13RL | 12.4 | 14.1 | 20 | 10 | 400 | 0.5 | 9.1 | 0.5 | 344 |
| BZX85C15RL | 13.8 | 15.6 | 15 | 15 | 500 | 0.5 | 10.5 | 0.5 | 304 |
| BZX85C16RL | 15.3 | 17.1 | 15 | 15 | 500 | 0.5 | 11 | 0.5 | 285 |
| BZX85C18RL | 16.8 | 19.1 | 15 | 20 | 500 | 0.5 | 12.5 | 0.5 | 250 |
| BZX85C20RL | 18.8 | 21.2 | 10 | 24 | 600 | 0.5 | 14 | 0.5 | 225 |
| BZX85C22RL | 20.8 | 23.3 | 10 | 25 | 600 | 0.5 | 15.5 | 0.5 | 205 |
| BZX85C24RL | 22.8 | 25.6 | 10 | 25 | 600 | 0.5 | 17 | 0.5 | 190 |
| BZX85C27RL | 25.1 | 28.9 | 8 | 30 | 750 | 0.25 | 19 | 0.5 | 170 |
| BZX85C30RL | 28 | 32 | 8 | 30 | 1000 | 0.25 | 21 | 0.5 | 150 |
| BZX85C33RL | 31 | 35 | 8 | 35 | 1000 | 0.25 | 23 | 0.5 | 135 |
| BZX85C36RL | 34 | 38 | 8 | 40 | 1000 | 0.25 | 25 | 0.5 | 125 |
| BZX85C39RL | 37 | 41 | 6 | 45 | 1000 | 0.25 | 27 | 0.5 | 115 |
| BZX85C43RL | 40 | 46 | 6 | 50 | 1000 | 0.25 | 30 | 0.5 | 110 |
| BZX85C47RL | 44 | 50 | 4 | 90 | 1500 | 0.25 | 33 | 0.5 | 95 |
| BZX85C51RL | 48 | 54 | 4 | 115 | 1500 | 0.25 | 36 | 0.5 | 90 |
| BZX85C56RL | 52 | 60 | 4 | 120 | 2000 | 0.25 | 39 | 0.5 | 80 |
| BZX85C62RL | 58 | 66 | 4 | 125 | 2000 | 0.25 | 43 | 0.5 | 70 |
| BZX85C68RL | 64 | 72 | 4 | 130 | 2000 | 0.25 | 47 | 0.5 | 65 |
| BZX85C75RL | 70 | 80 | 4 | 150 | 2000 | 0.25 | 51 | 0.5 | 60 |
| BZX85C82RL | 77 | 87 | 2.7 | 200 | 3000 | 0.25 | 56 | 0.5 | 55 |
| BZX85C91RL | 85 | 96 | 2.7 | 250 | 3000 | 0.25 | 62 | 0.5 | 50 |
| BZX85C100RL | 96 | 106 | 2.7 | 350 | 3000 | 0.25 | 68 | 0.5 | 45 |

NOTE 1. TOLERANCE AND TYPE NUMBER DESIGNATION

The type numbers listed have zener voltage min/max limits as shown. Device tolerance of $\pm 2\%$ are indicated by a "B" instead of "C."

NOTE 2. SPECIALS AVAILABLE INCLUDE:

Nominal zener voltages between the voltages shown and tighter voltage tolerances.

For detailed information on price, availability, and delivery, contact your nearest Motorola representative.

NOTE 3. ZENER VOLTAGE (V_Z) MEASUREMENT

V_Z is measured after the test current has been applied to 40 ± 10 msec., while maintaining the lead temperature (T_L) at $30^\circ\text{C} \pm 1^\circ\text{C}$, $3/8"$ from the diode body.

NOTE 4. ZENER IMPEDANCE (Z_Z) DERIVATION

The zener impedance is derived from the 1 kHz cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT}) or (I_{ZK}) is superimposed on I_{ZT} or I_{ZK} .

NOTE 5. SURGE CURRENT (i_r) NON-REPETITIVE

The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equivalent sine wave pulse of 1/120 second duration superimposed on the test current I_{ZT} . However, actual device capability is as described in Figure 5 of General Data DO-41 glass.

GENERAL DATA — 500 mW DO-35 GLASS

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted) $V_F = 1.2\text{ V Max}$, $I_F = 200\text{ mA}$ for all types.

| Type No. (Note 1) | Zener Voltage (V) (Notes 2 and 3) | | Test Current I_{ZT} (mA) | Zener Impedance (Note 4) $f = 1\text{ kHz (ohms)}$ | | Blocking Volt Min (V) $I_R = 1\ \mu\text{A}$ | Surge Current $T_A = 25^\circ\text{C}$ I_r (ma) (Note 5) |
|----------------------|--------------------------------------|-----------|----------------------------------|--|-----|--|--|
| | V_Z Min | V_Z Max | | Typ | Max | | |
| MZPY3.9RL | 3.7 | 4.1 | 100 | 4 | 7 | — | 1190 |
| MZPY4.3RL | 4 | 4.6 | 100 | 4 | 7 | — | 1070 |
| MZPY4.7RL | 4.4 | 5 | 100 | 4 | 7 | — | 970 |
| MZPY5.1RL | 4.8 | 5.4 | 100 | 2 | 5 | 0.7 | 890 |
| MZPY5.6RL | 5.2 | 6 | 100 | 1 | 2 | 1.5 | 810 |
| MZPY6.2RL | 5.8 | 6.6 | 100 | 1 | 2 | 2 | 730 |
| MZPY6.8RL | 6.4 | 7.2 | 100 | 1 | 2 | 3 | 660 |
| MZPY7.5RL | 7 | 7.9 | 100 | 1 | 2 | 5 | 605 |
| MZPY8.2RL | 7.7 | 8.7 | 100 | 1 | 2 | 6 | 550 |
| MZPY9.1RL | 8.5 | 9.6 | 50 | 2 | 4 | 7 | 500 |
| MZPY10RL | 9.4 | 10.6 | 50 | 2 | 4 | 7.5 | 454 |
| MZPY11RL | 10.4 | 11.6 | 50 | 3 | 7 | 8.5 | 414 |
| MZPY12RL | 11.4 | 12.7 | 50 | 3 | 7 | 9 | 380 |
| MZPY13RL | 12.4 | 14.1 | 50 | 4 | 9 | 10 | 344 |
| MZPY15RL | 14.2 | 15.8 | 50 | 4 | 9 | 11 | 304 |
| MZPY16RL | 15.3 | 17.1 | 25 | 5 | 10 | 12 | 285 |
| MZPY18RL | 16.8 | 19.1 | 25 | 5 | 11 | 14 | 250 |
| MZPY20RL | 18.8 | 21.2 | 25 | 6 | 12 | 15 | 225 |
| MZPY22RL | 20.8 | 23.3 | 25 | 7 | 13 | 17 | 205 |
| MZPY24RL | 22.8 | 25.6 | 25 | 8 | 14 | 18 | 190 |
| MZPY27RL | 25.1 | 28.9 | 25 | 9 | 15 | 20 | 170 |
| MZPY30RL | 28 | 32 | 25 | 10 | 20 | 22.5 | 150 |
| MZPY33RL | 31 | 35 | 25 | 11 | 20 | 25 | 135 |
| MZPY36RL | 34 | 38 | 10 | 25 | 60 | 27 | 125 |
| MZPY39RL | 37 | 41 | 10 | 30 | 60 | 29 | 115 |
| MZPY43RL | 40 | 46 | 10 | 35 | 80 | 32 | 110 |
| MZPY47RL | 44 | 50 | 10 | 40 | 80 | 35 | 95 |
| MZPY51RL | 48 | 54 | 10 | 45 | 100 | 38 | 90 |
| MZPY56RL | 52 | 60 | 10 | 50 | 100 | 42 | 80 |
| MZPY62RL | 58 | 66 | 10 | 60 | 130 | 47 | 70 |
| MZPY68RL | 64 | 72 | 10 | 65 | 130 | 51 | 65 |
| MZPY75RL | 70 | 79 | 10 | 70 | 160 | 56 | 60 |
| MZPY82RL | 77 | 88 | 10 | 80 | 160 | 61 | 55 |
| MZPY91RL | 85 | 96 | 5 | 120 | 250 | 68 | 50 |
| MZPY100RL | 94 | 106 | 5 | 130 | 250 | 75 | 45 |

NOTE 1. TOLERANCE AND TYPE NUMBER DESIGNATION

The type numbers listed have zener voltage min/max limits as shown. Device tolerance of $\pm 2\%$ are indicated by a "C" and $\pm 1\%$ by a "D" suffix.

NOTE 2. SPECIALS AVAILABLE INCLUDE:

Nominal zener voltages between the voltages shown and tighter voltage tolerances.

For detailed information on price, availability, and delivery, contact your nearest Motorola representative.

NOTE 3. ZENER VOLTAGE (V_Z) MEASUREMENT

V_Z is measured after the test current has been applied to $40 \pm 10\text{ msec.}$, while maintaining the lead temperature (T_L) at $30^\circ\text{C} \pm 1^\circ\text{C}$, $3/8"$ from the diode body.

NOTE 4. ZENER IMPEDANCE (Z_Z) DERIVATION

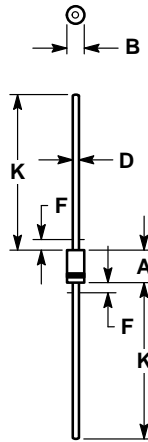
The zener impedance is derived from the 1 kHz cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT}) of (I_{ZK}) is superimposed on I_{ZT} or I_{ZK} .

NOTE 5. SURGE CURRENT (I_r) NON-REPETITIVE

The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equivalent sine wave pulse of 1/120 second duration superimposed on the test current I_{ZT} , however, actual device capability is as described in Figure 5 of General Data DO-41 glass.

Zener Voltage Regulator Diodes — Axial Ledged

1–1.3 Watt DO-41 Glass



- NOTES:
1. ALL RULES AND NOTES ASSOCIATED WITH JEDEC DO-41 OUTLINE SHALL APPLY.
 2. POLARITY DENOTED BY CATHODE BAND.
 3. LEAD DIAMETER NOT CONTROLLED WITHIN F DIMENSION.

| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|--------|-------|
| | MIN | MAX | MIN | MAX |
| A | 4.07 | 5.20 | 0.160 | 0.205 |
| B | 2.04 | 2.71 | 0.080 | 0.107 |
| D | 0.71 | 0.86 | 0.028 | 0.034 |
| F | — | 1.27 | — | 0.050 |
| K | 27.94 | — | 1.100 | — |

CASE 59-03
DO-41
GLASS

(Refer to Section 10 for Surface Mount, Thermal Data and Footprint Information.)

MULTIPLE PACKAGE QUANTITY (MPQ) REQUIREMENTS

| Package Option | Type No. Suffix | MPQ (Units) |
|----------------|-----------------|-------------|
| Tape and Reel | RL, RL2 | 6K |
| Tape and Ammo | TA, TA2 | 4K |

NOTE: 1. The "2" suffix refers to 26 mm tape spacing.

(Refer to Section 10 for more information on Packaging Specifications.)