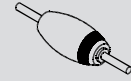


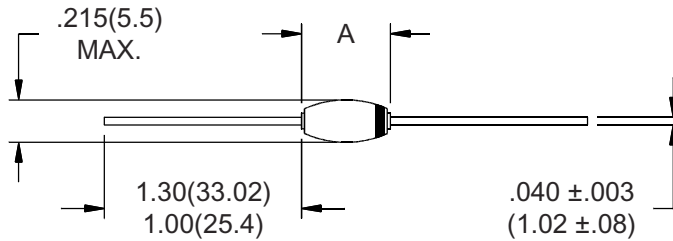
# Spice Model



Z150UFG



| Part Number | Working Reverse Voltage<br>(Vrwm) | Average Rectified Current<br>(Io) |          | Reverse Current @ Vrwm<br>(Ir) |       | Forward Voltage<br>(Vf) |      | 1 Cycle Surge Current<br>tp=8.3ms<br>(Ifsm) | Repetitive Surge Current<br>(Ifrm) | Reverse Recovery Time<br>(3)<br>(Trr) | Thermal Impedance<br>J-L |        |        | Junction Cap.<br>@50VDC<br>@ 1kHz<br>(Cj) |
|-------------|-----------------------------------|-----------------------------------|----------|--------------------------------|-------|-------------------------|------|---|------------------------------------|---------------------------------------|--------------------------|--------|--------|---|
|             |                                   | 55°C(1)                           | 100°C(2) | 25°C                           | 100°C | 25°C                    |      | 25°C  | 25°C                               | 25°C                                  | L=.000                   | L=.125 | L=.250 | 25°C                                      |
|             | °C/W                              | Amps                              | Amps     | µA                             | µA    | Volts                   | Amps | Amps  | Amps                               | ns                                    | °C/W                     | °C/W   | °C/W   | pF  |
| Z150UFG     | 15000                             | 0.30                              | 0.15     | 1.0                            | 25    | 22.0                    | 0.3  | 10  | 2                                  | 100                                   | 3                        | 6      | 12     | 5   |



| Part    | A               |
|---------|-----------------|
| Z150UFG | .450(11.43) MAX |

|                       |                                |         |       |
|-----------------------|--------------------------------|---------|-------|
| <b>I<sub>s</sub></b>  | Reverse leakage current        | 5.0E-07 | Amps  |
| <b>N</b>              | Emission coefficient           | 52      |       |
| <b>T</b>              | Temperature                    | 25      | C     |
| <b>RS</b>             | Diode series resistance        | 1.5     | Ohm   |
| <b>TT</b>             | Transit time                   | 100     | nS    |
| <b>C<sub>J0</sub></b> | Zero-bias junction capacitance | 5.99    | pF    |
| <b>VJ</b>             | Bulk junction potential        | 21.33   | Volts |
| <b>M</b>              | Grading coefficient            | 0.5     |       |
| <b>EG</b>             | Energy-band gap                | 1.11    | Volts |
| <b>XTI</b>            | Temperature coefficient        | 3       |       |
| <b>KF</b>             | Flicker-noise coefficient      | 0       |       |
| <b>AF</b>             | Flicker-noise exponent         | 1       |       |
| <b>FC</b>             | Coefficient for capacitance    | 0.5     |       |
| <b>BV</b>             | Diode breakdown voltage        | 18000   | Volts |
| <b>IBV</b>            | Diode breakdown current        | 100     | uAmps |



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