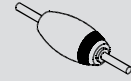


Spice Model

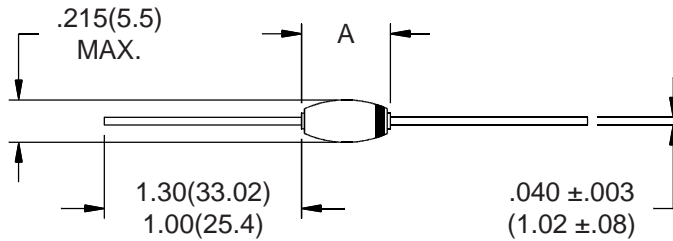


Z20FF3



Electrical Characteristics and Maximum Ratings

| Part Number | Working Reverse Voltage (V _{rw}) | Average Rectified Current (I _o) | | Reverse Current @ V _{rw} (I _r) | | Forward Voltage (V _f) | | 1 Cycle Surge Current t _p =8.3ms (I _{fsm}) | Repetitive Surge Current (I _{frm}) | Reverse Recovery Time (3) (T _{rr}) | Thermal Impedance θ _{J-L} | | | Junction Cap. @ 50VDC @ 1kHz (C _j) |
|-------------|---|--|----------|--|-------|--------------------------------------|-------|---|---|---|---------------------------------------|--------|--------|---|
| | | 55°C(1) | 100°C(2) | 25°C | 100°C | 25°C | | 25°C | 25°C | 25°C | 25°C | L=.000 | L=.125 | L=.250 |
| | Volts | mAmps | mAmps | µA | µA | Volts | mAmps | Amps | Amps | ns | °C/W | °C/W | °C/W | pF |
| Z20FF3 | 2000 | 1000 | 750 | 1.0 | 25 | 6.0 | 750 | 65.0 | 10.0 | 30 | 3 | 6 | 12 | 20 |



| Part | A |
|------------------|------------------|
| Z20FFX Z50FFX | .350(8.89) MAX. |
| Z100FFX | .400(10.16) MAX. |

| Name | Parameter | Value | Units |
|-----------------|--------------------------------|---------|-------|
| I _s | Reverse leakage current | 5.0E-07 | Amps |
| N | Emission coefficient | 10 | |
| T | Temperature | 25 | C |
| RS | Diode series resistance | 0.36 | Ohm |
| TT | Transit time | 30 | nS |
| C _{J0} | Zero-bias junction capacitance | 57.79 | pF |
| VJ | Bulk junction potential | 2.16 | Volts |
| M | Grading coefficient | 0.5 | |
| EG | Energy-band gap | 1.11 | Volts |
| XTI | Temperature coefficient | 3 | |
| KF | Flicker-noise coefficient | 0 | |
| AF | Flicker-noise exponent | 1 | |
| FC | Coefficient for capacitance | 0.5 | |
| BV | Diode breakdown voltage | 2200 | Volts |
| IBV | Diode breakdown current | 100 | uAmps |

Dimensions: In. (mm) * All temperatures are ambient unless otherwise noted. * Data subject to change without notice.



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