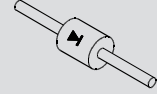


Spice Model

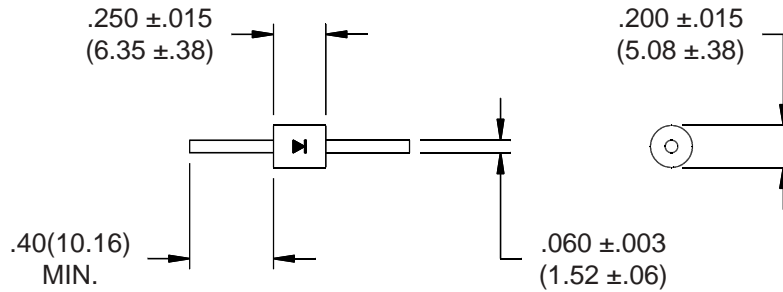


Z25UF



Electrical Characteristics and Maximum Ratings

| Part Number | Working Reverse Voltage (Vrwm) | Average Rectified Current (Io) | | Reverse Current @ Vrwm (Ir) | | Forward Voltage (Vf) | | 1 Cycle Surge Current tp=8.3ms (Ifsm) | Repetitive Surge Current (Ifrm) | Reverse Recovery Time (3) (Trr) | Thermal Impedance θ_{J-L} | | Junction Cap. @ 50VDC @ 1kHz (Cj) |
|-------------|-----------------------------------|-----------------------------------|----------|--------------------------------|---------|-------------------------|------|---|------------------------------------|---------------------------------------|-------------------------------------|--------|--|
| | | 55°C(1) | 100°C(2) | 25°C | 100°C | 25°C | | 25°C | 25°C | 25°C | L=.000 | L=.250 | 25°C |
| | Volts | Amps | Amps | μ A | μ A | Volts | Amps | Amps | Amps | ns | °C/W | °C/W | pF |
| Z25UF | 2500 | 1.0 | 0.50 | 1.0 | 25 | 7.5 | 2.0 | 60 | 10 | 100 | 3 | 10 | 20 |



| Name | Parameter | Value | Units |
|-----------------|--------------------------------|---------|-------|
| I _s | Reverse leakage current | 5.0E-07 | Amps |
| N | Emission coefficient | 11 | |
| T | Temperature | 25 | C |
| RS | Diode series resistance | 0.12 | Ohm |
| TT | Transit time | 100 | nS |
| C _{J0} | Zero-bias junction capacitance | 29.26 | pF |
| VJ | Bulk junction potential | 2.53 | 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 | 3600 | 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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