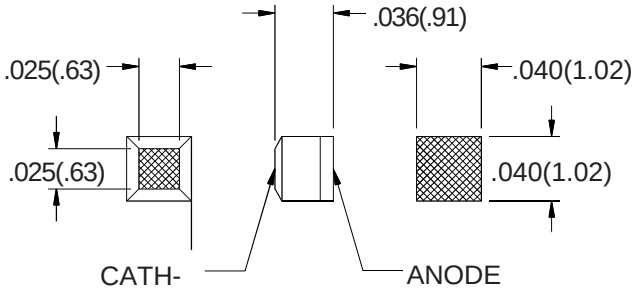
# Spice Model

**D40U18R**

## 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 $\theta_{J-L}$ | Junction Cap. @50VDC @ 1kHZ (Cj) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 55°C(1) | 100°C(2) | 25°C | 100°C | 25°C | | 25°C | 25°C | 25°C | 25°C | 25°C |
| | Volts | Amps | Amps | µA | µA | Volts | A | Amps | Amps | ns | °C/W | pF |
| D40U18R | 1800 | 0.050 | 0.025 | .25 | 10 | 8.0 | 0.10 | 1.0 | 0.2 | 70 | 10 | 35 |




Plating:
50µin silver over 50µin nickel.

| Name | Parameter | Value | Units |
|---|---|---|---|
| **IS** | Reverse leakage current | 1.0E-07 | Amps |
| **N** | Emission coefficient | 17.6 | |
| **T** | Temperature | 25 | C |
| **RS** | Diode series resistance | 1.6 | Ohm |
| **TT** | Transit time | 70 | nS |
| **CJ0** | Zero-bias junction capacitance | 4.77 | pF |
| **VJ** | Bulk junction potential | 1.23 | 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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