



2CL2FM

20kV 100mA, Fast Recovery
High Voltage Rectifier

Features

- High voltage, fast recovery rectifier
- Medium power handling capability
- RoHS compliant based on exemption: [2011/65/EC, Annex III, 7(a)]



DEVICE ELECTRICAL CHARACTERISTICS

(25°C ambient temperature unless stated otherwise)

| | Conditions | Symbol | Value |
|-----------------------------------|---|------------|----------------------|
| Repetitive Peak Reverse Voltage | - | V_{RRM} | 20,000 Volts |
| Average Forward Current Maximum | $T_A = 40^\circ\text{C}$ in air | I_{FAVM} | 100 mA |
| Average Forward Current Maximum | @ $T_{OIL} = 55^\circ\text{C}$ | I_{FAVM} | 220 mA |
| Maximum Forward Voltage Drop | @ $I_F = 100\text{mA}$ | V_F | 35 Volts |
| Maximum Reverse Current | @ V_{RRM} | I_R | 2.0 μA |
| Maximum Reverse Recovery Time | ($I_F = 50\text{mA}$; $I_R = -100\text{mA}$; $I_{rr} = -25\text{mA}$) | T_{RR} | 100 ηsec |
| Maximum Junction Capacitance | ($f = 1\text{MHz}$, $V_r = 0\text{V}$) | C_J | 1.9 pf |
| Maximum Surge Current | 8.3msec, half sine wave | I_{FSM} | 10 Amps |
| Operating and Storage Temperature | - | T_{OS} | -40°C to 150°C |

| Mechanical Data | Symbol | Min. | | Max. | |
|-----------------|----------|-------|-------|-------|-------|
| | | in. | mm | in. | mm |
| Body Length | A | - | - | 0.600 | 15.24 |
| Body Diameter | D | - | - | 0.170 | 4.31 |
| Lead Length | B | 0.940 | 23.87 | - | - |
| Lead Diameter | C | 0.028 | 0.71 | 0.032 | 0.81 |

