



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

