



2CL SERIES

4 to 35kV, 60 to 140mA, 100nS to Standard Recovery
Axial Lead Power Diodes



Features

- Medium Power
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

Specifications¹

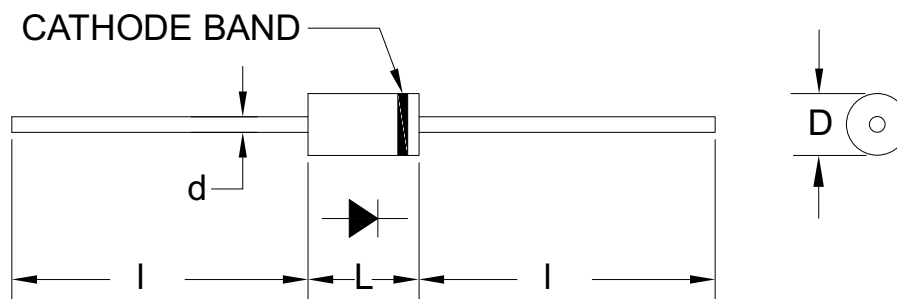
Part Number	V _{RRM} V	I _{FAVM1} mA	I _{FAVM2} mA	V _F V	I _{R1} μA	I _{R2} μA	I _{FSM} A	C _J pF	T _{RR} ² nS	L in.	D in.	d in.	l in.
2CL2FD	4000	140	250	7.5	2	10	20	6.7	100	0.60	0.17	0.032	0.94
2CL2FE	6000	120	240	9.0	2	10	20	5.0	100	0.60	0.17	0.032	0.94
2CL2F	8000	100	220	10.0	2	10	20	-	-	0.60	0.17	0.032	0.94
2CL2FF	8000	60	120	16.0	2	10	10	4.1	150	0.60	0.17	0.032	0.94
2CL2FG	10000	60	120	18.0	2	10	10	3.3	150	0.60	0.17	0.032	0.94
2CL2FK	10000	140	240	22.0	2	10	10	2.7	100	0.60	0.17	0.032	0.94
2CL2G	10000	100	220	12.0	2	10	20	-	-	0.60	0.17	0.032	0.94
2CL2FH	12000	60	120	20.0	2	10	10	2.3	150	0.60	0.17	0.032	0.94
2CL2H	12000	100	220	13.0	2	10	20	-	-	0.60	0.17	0.032	0.94
2CL2FJ	15000	60	120	24.0	2	10	10	1.8	150	0.60	0.17	0.032	0.94
2CL2FL	15000	120	200	26.0	2	10	10	2.5	100	0.60	0.17	0.032	0.94
2CL2J	15000	100	220	16.0	2	10	20	-	-	0.60	0.17	0.032	0.94
2CL2FM	20000	100	170	35.0	2	10	10	1.9	100	0.60	0.17	0.032	0.94
2CL2FN	25000	90	150	41.0	2	10	10	-	100	0.60	0.17	0.032	0.94
2CL2FP	30000	80	140	46.0	2	10	10	1.1	100	0.60	0.17	0.032	0.94
2CL2FR	35000	60	100	52.0	2	10	10	0.9	100	0.60	0.17	0.032	0.94

Temperature °C	
Operating Temperature	-55 to 125
Storage Temperature	-55 to 175
Maximum Junction Temperature	125

¹125°C ambient temperature unless stated otherwise.

²A "-" indicates that the component is a standard recovery device and no T_{RR} data is taken.

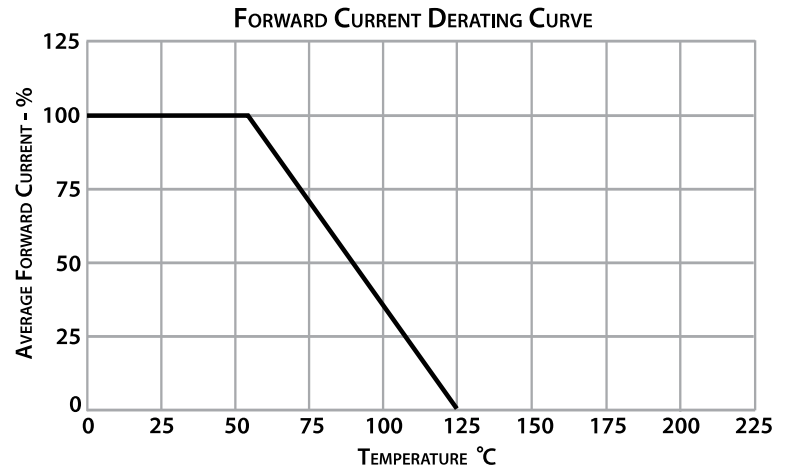
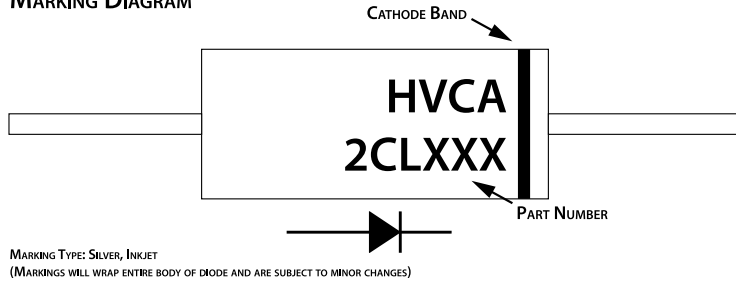
Drawings



Dimensions in inches, tolerances ±0.020 except as noted



MARKING DIAGRAM



Specification Definitions

Specifications		Conditions
V_{RRM}	Maximum Repetitive Reverse Voltage	-
I_{FAVM1}	Maximum Average Forward Current	At $T_A = 40^\circ\text{C}$, In Air
I_{FAVM2}	Maximum Average Forward Current	At $T_A = 55^\circ\text{C}$, In Oil
V_F	Maximum Forward Voltage Drop	At 100mA
I_{R1}	Maximum Leakage Current	At V_{RRM}
I_{R2}	Maximum Leakage Current	At V_{RRM} , 100°C
I_{FSM}	Maximum Surge Current	At 8.3 mS, Single Half Sine
C_J	Typical Junction Capacitance	At $V_R = 0\text{VDC}$, $f = 1\text{MHz}$
T_{RR}	Maximum Reverse Recovery Time	$I_F = 40\text{mA}$; $I_R = -80\text{mA}$; $I_{RR} = -20\text{mA}$

Note: Specifications subject to change without notice. Photo is representation only.





2CL100 SERIES

9 to 12kV, 450mA, Standard Recovery
Axial Lead Power Diodes



Features

- Medium Power
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

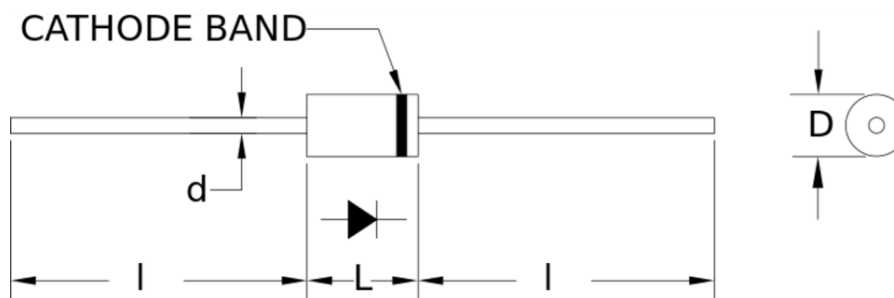
Specifications¹

Part Number	V_{RRM} V	I_{FAVM} mA	V_F V	I_R μA	I_{FSM} A	L in.	D in.	d in.	l in.
2CL105	9000	450	10	2	30	0.87	0.30	0.05	0.94
2CL106	12000	450	12	2	30	0.87	0.30	0.05	0.94

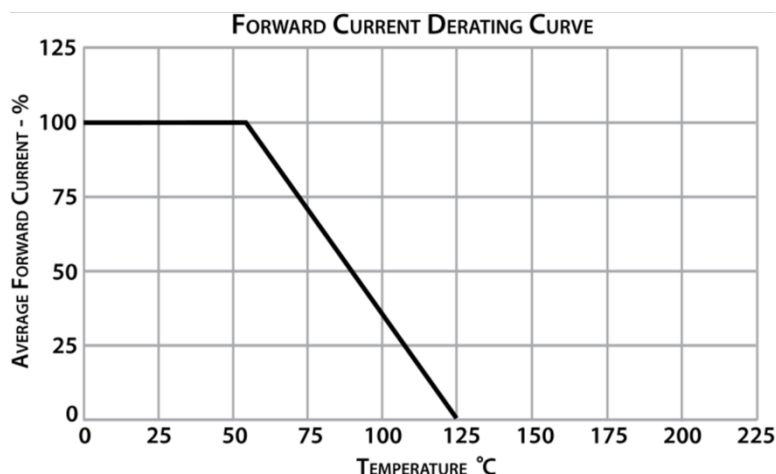
Temperature °C	
Storage Temperature	-55 to 175
Operating Temperature	-55 to 125
Maximum Junction Temperature	125

¹125°C ambient temperature unless stated otherwise.

Drawings



Dimensions in inches, tolerances ± 0.020 except as noted





Specification Definitions

Specifications		Conditions
V_{RRM}	Maximum Repetitive Reverse Voltage	-
I_{FAVM}	Maximum Average Forward Current	At T _A = 55°C
V_F	Maximum Forward Voltage Drop	At I _{FAVM}
I_R	Maximum Leakage Current	At V _{RRM}
I_{FSM}	Maximum Surge Current	At 8.3 mS, Single Half Sine

Note: Specifications subject to change without notice. Photo is representation only.

