

Data sheet

2CL82 Diode

High voltage rectifier diodes 2CL82 Series adopts high reliable mesa structure and diffusion craft work, epoxy resin molded in a compact structure.

■ Features

- Avalanche characteristic
- More sizes to choose
- epoxy resin molded in vacuum, have anti-corrosion in the surface
- Tj: -40°C—+150°C

■ Applications

- High voltage rectifier used in electrostatic cleaning
- High voltage generator
- High voltage testing equipment
- General purpose high voltage rectifier, voltage multiplier assembly

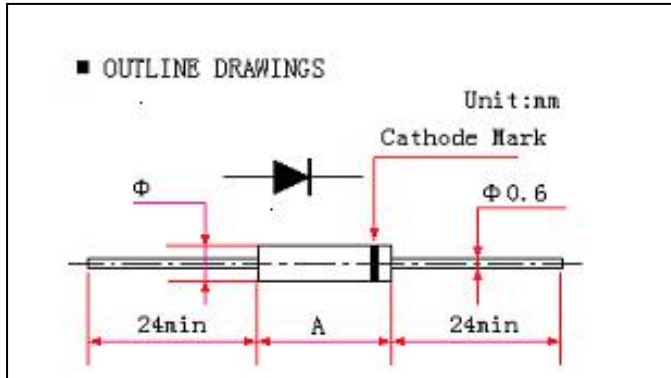
■ Maximum ratings

Parameters	Symbol	Test Conditions	2CL	Unit
			82	
Repetitive Peak Reverse Voltage	V_{RRM}	Ta=25°C I _R =0.5μA	30	kV
Average Forward Current	I _O		10.0	mA
Surge Forward Current	I _{FSM}	50Hz Half-sine Wave , Resistance load @T _{break} =50°C	0.5	A
Junction Operating Temperature	T _j	Half sine wave peak voltage	120	°C
Operating Ambient Temperature	T _c		100	°C
Storage Temperature	T _{stg}		-40—120	°C

■ Electrical characteristics

Rated Value	Sign	Condition	2CL	Unit
			82	
Forward Peak Voltage Max	V	I _F =10mA	55	V
Reverse Recovery Time Max	T _{rr}	I _F =2mA I _R =4mA	100	nS
Peak Reverse Current	I _{R1}	V _R =V _{RRM} , 25°C	2.0	μA
	I _{R2}	V _R =V _{RRM} , 100°C	5.0	μA
Junction capacitance Max	C _j		2	pF

■ Dimensions



Type	A	Φ
2CL82	12	3.0