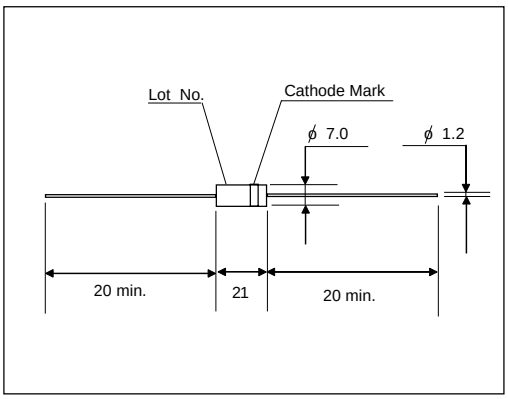
HVCA™ 2CL106

12kV 450mA HIGH VOLTAGE DIODE

2CL106 is high reliability resin molded type high voltage diode in small size package which is sealed a multilayed mesa type silicon chip by epoxy resin.

■ Outline Drawings : mm



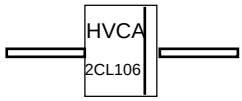
■ Features

- High speed switching
- Low VF
- High surge resisitivity for CRT discharge
- High reliability design
- Ultra small pakage

■ Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power

■ Cathode Mark

Type	Mark
2CL106	

■ Maximum Ratings and Characteristics

● Absolute Maximum Ratings

Items	Symbols	Condition	2CL106	Units
Repetitive Peak Renerse Voltage	V_{RRM}		12	kV
Average Output Current	I_O	Ta=25°C,Resistive Load	450	mA
Suege Current	I_{FSM}		30	A_{peak}
Junction Temperature	Tj		155	°C
Allowable Operation Case Temperature	Tc		125	°C
Storage Temperature	T_{stg}		-40 to +155	°C

● Electrical Characteristics (Ta=25°C Unless otherwise specified)

Items	Symbols	Conditions	2CL106	Units
Maximum Forward Voltage Drop	V_F	at 25°C,$I_F=I_{F(AV)}$	13	V
Maximum Reverse Current	IR1	at 25°C,$V_R=V_{RRM}$	3.0	μA
	IR2	at 100°C,$V_R=V_{RRM}$	30	μA
Maximum Reverse Recovery Time	Trr	at 25°C	-	nS
Junction Capacitance	Cj	at 25°C,V_R=0V,f=1MHz	1	pF

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Http://www.getedz.com E-mail:sales@getedz.com