HVCA™

2CL103

9kV 350mA HIGH VOLTAGE DIODE

2CL103 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.

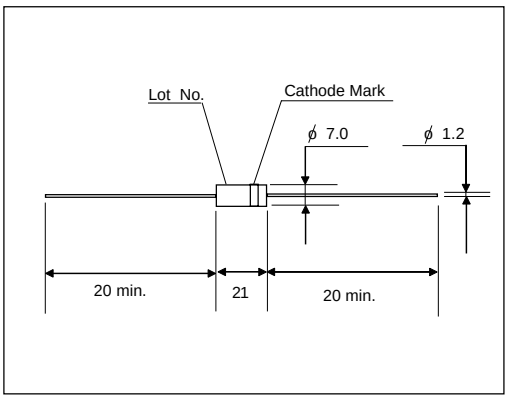
Features

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

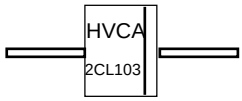
Applications

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

Outline Drawings : mm



Cathode Mark

Type	Mark
2CL103	

Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Items	Symbols	Condition	2CL103	Units
Repetitive Peak Renerse Voltage	V_{RRM}		9	kV
Average Output Current	I_O	Ta=25°C,Resistive Load	350	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	2CL103	Units
Maximum Forward Voltage Drop	V_F	at 25°C,I_F=$I_{F(AV)}$	10	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

GETE ELECTRONICS CO.,LTD
Http://www.getedz.com E-mail:sales@getedz.com

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