

Fast recovery high voltage diodes

Primary characteristics

I_{F(AV)}	100mA
V_{RRM}	30kV
I_{FSM}	10A
I_{RM}	2uA
V_{FM}	52V
T_{J max.}	125°C

Features

- Supersmall size
- High reliability
- High speed switching

Applications

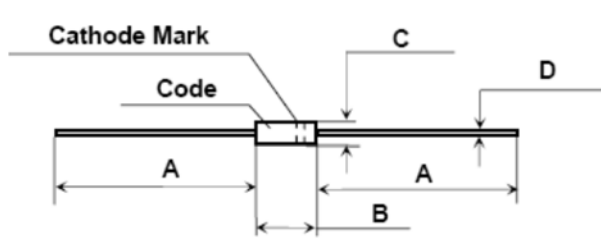
Rectification for high voltage power supply of color T.V、CRT display、V.T.R camera and Others

Mechanical data

- **Case:** Molded Plastic Body
- Epoxy meets UL 94V-0 flammability rating
- **Terminals:** Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test.
- **Polarity:** Color band denotes cathode end

Maximum rating (Ta=25°C unless otherwise noted)

Parameter		Symbol	2CL2FP	Unit	
Repetitive peak reverse voltage		V _{RRM}	30	kV	
Average forward current	60Hz half-sine wave, Resistance load, Ta=25°C	I _{F(AV)}	100	mA	
Surge(Non-repetitive) forward current	60Hz half-sine wave, 1cycle, Ta=25°C	I _{FSM}	10	A	
Peak forward voltage	I _{FM} =200mA	V _{FM}	52	V	
Peak reverse current	V _{RM} =V _{RRM}	I _{RRM}	Ta=25°C	2	μA
			Ta=100°C	50	
Reverse recovery time	I _F =10mA, I _{RM} =20mA	t _{rr}	0.1	μs	
Operating ambient temperature		T _a	-40 ~ +125	°C	
Storage temperature		T _{stg}	-40 ~ +125	°C	
Virtual junction temperature		T _(vj)	125	°C	

Package outline dimensions


Dim.	Inches		Millimeters	
	Min.	Max.	Min.	Max.
A	0.984		25	
B	0.583	0.598	14.8	15.2
C	0.157	0.173	4.0	4.4
D	0.031	0.032	0.78	0.82

Marking

Type	Code	Cathode Mark
2CL2FP	2FP	I