

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Satellite Receiver RF Input

Surge Protection

Compliance IEC 61000-4-5:

8/20 µs surge 2 kA

Benefit

SMCJ20A alone: 8/20 µs surge 150 A

SMLJ20A alone: 8/20 µs surge 400 A

SMCJ20A & 2051-09-SM & CC453232:

This solution provides a low height, high current

solution to exposed set-top box applications.

Solution Products





SMCJ20A/SMLJ20A



CC453232-1R0KL

ObjectiveThis solution

This solution is designed to offer surge protection to the RF input port from a set-top box to a satellite dish. Lightning strikes or near strikes to the building can damage the delicate RF port and the power supply which is fed to the dish.

Solution

Option 1

1 TVS Diode: SMCJ20A

Option 2

1 TVS Diode: SMLJ20A

Option 3

1 TVS Diode: SMCJ20A 1 GDT: 2051-09-SM-RPLF

1 Wirewound Chip Inductor: CC453232-1R0KL

RF Input CC453232-1R0KL DC Supply TVS Diode = 2051-09-SM-RPLF

The schematic above illustrates the application protection and does not constitute the complete circuit design. Customers should verify actual device performance in their specific applications.

Design Kit



PN-DESIGNKIT-46

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Bourns* PortNote* solutions provide protection recommendations for typical port threats.

For more information, go to:

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