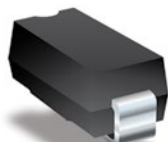


Satellite Receiver RF Input Surge Protection

Solution Products



2051-09-SM-RPLF



SMCJ20A/SMLJ20A



CC453232-1R0KL

Design Kit



PN-DESIGNKIT-46

Objective

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

Compliance

IEC 61000-4-5:

SMCJ20A alone: 8/20 μ s surge 150 A

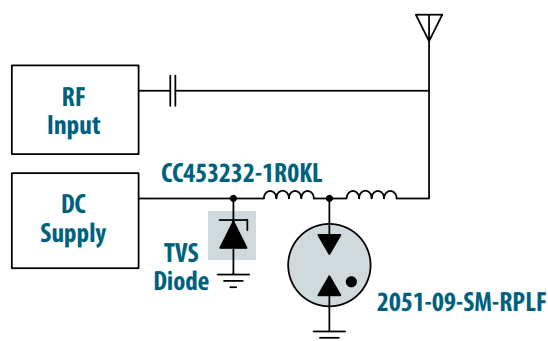
SMLJ20A alone: 8/20 μ s surge 400 A

SMCJ20A & 2051-09-SM & CC453232:

8/20 μ s surge 2 kA

Benefit

This solution provides a low height, high current solution to exposed set-top box applications.



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.

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

For more information, go to:

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