

Chip-SPD 『BEST』 over voltage Protection Solution

Surge , Load Dump & ESD Protection Device

SEA Series



Description

CAN Bus is automotive ESD requirement. It is one of the widely used international bus and it's smart electrical control equipment to transfer data between every electronic devices in automobile. It achieves a regional network control systems in whole vehicle and exchanges information between ECU electronic controls to become the automotive electronic control network. This series is design for this request.



Features

1. Ultra high current handle ability , up to 3000A
2. Several Surge Voltage ability and Surge Current ability.
3. Breakdown Voltage Concentration ratio higher 99.5%
4. High nonlinear exponent α up to 50
5. Ultra low leakage current $< 5 \mu\text{A}$
6. Ultra high temperature up to 125 degree

Application

1. Telecom equipment RJ45/LAN connector
2. Outdoor/ Indoor AP/ IAD
3. Security system IP CAM
4. Base station
5. Low voltage power line

SEA Series Specification for 12V Automotive CAN BUS

Part Number	Working Voltage	Breakdown Voltage	Clamping Voltage	Peak Current	Load Dump	Jump Start Voltage (5min)
Symbol	DC	V (1mA)	V	A	$W_{LD}(J)$	$V_{JUMP}(V)$
SFI0603EA240-LSP	12	24($\pm 10\%$)	< 40	400 (for +/- 1 time)	1.5 (for 10 times)	24.5
SFI0603EA240-MSP	12	24($\pm 10\%$)	< 40	400 (for +/- 1 time)	3 (for 10 times)	24.5
SFI0603EA240-HSP	12	24($\pm 10\%$)	< 40	500 (for +/- 1 time)	6 (for 10 times)	24.5
SFI0603EA240-LSP	12	24($\pm 10\%$)	< 40	800 (for +/- 1 time)	3 (for 10 times)	24.5
SFI0603EA240-MSP	12	24($\pm 10\%$)	< 40	800 (for +/- 1 time)	6 (for 10 times)	24.5
SFI0603EA240-HSP	12	24($\pm 10\%$)	< 40	1000 (for +/- 1 time)	12 (for 10 times)	24.5



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All the parameters will follow the data sheet , without notice