

OVER VOLTAGE PROTECTION DEVICE

General Single Type (MLE Series)



Description

Electro Static discharge (ESD) is the transients as short duration excursion. Our ESD products are based on the design of multilayer fabrication technology to suppress ESD events. Our products meet IEC61000-4-2 standard for Electromagnetic Compliance testing. We supply extra low capacitance and protect integrated circuits.

Features

■ Fast Response < 0.5ns	■ Low Working Voltage	■ Low Capacitance 0.05pF
■ Low Leakage Current < 1 μA	■ Low Clamping Voltage	■ Bi-directional

MLE Specification

All specification is base on datasheets and subject to change without notice.

	Part No.	Working Voltage	Breakdown Voltage	Clamping Voltage	Capacitance Volume	ESD Contact	ESD Air
		V _{DC} (max)	V _B (1mA)	V _C (max.)	C(1MHz)	V _{ESD}	V _{ESD}
0201	SFI0201-050E050PP-LF	5V	28~38V	72V	5.0pF(+80~-20%)	8KV	15KV
	SFI0201-050E100NP-LF	5V	28~38V	72V	10pF(±30%)	8KV	15KV
	SFI0201-050E330NP-LF	5V	18~28V	48V	33pF(±30%)	8KV	15KV
	SFI0201-120E0R8PP-LF	12V	100~150V	200V	0.8pF(+80~-20%)	8KV	15KV
	SFI0201-120E2R5PP-LF	12V	60~80V	130V	2.5pF(+80~-20%)	8KV	15KV
0402	SFI0402-050E050PP-LF	5V	28~38V	72V	5.0pF(+80~-20%)	8KV	15KV
	SFI0402-050E100NP-LF	5V	28~38V	72V	10pF(±30%)	8KV	15KV
	SFI0402-050E220NP-LF	5V	18~28V	52V	22pF(±30%)	8KV	15KV
	SFI0402-050E330NP-LF	5V	18~28V	52V	33pF(±30%)	8KV	15KV
	SFI0402-050E560NP-LF	5V	18~28V	52V	56pF(±30%)	8KV	15KV
	SFI0402-050E101NP-LF	5V	18~28V	52V	100pF(±30%)	8KV	15KV
	SFI0402-120E050PP-LF	12V	28~38V	72V	5.0pF(+80~-20%)	8KV	15KV
	SFI0402-120E100NP-LF	12V	28~38V	72V	10pF(±30%)	8KV	15KV
	SFI0402-120E220NP-LF	12V	20~30V	55V	22pF(±30%)	8KV	15KV
	SFI0402-120E330NP-LF	12V	20~30V	55V	33pF(±30%)	8KV	15KV
	SFI0402-120E560NP-LF	12V	20~30V	55V	56pF(±30%)	8KV	15KV
	SFI0402-120E101NP-LF	12V	20~30V	55V	100pF(±30%)	8KV	15KV

Specification

1. This Clamping Voltage at which the device stabilized during the transition from high to low impedance 8/20μs waveform current 1A.
2. All capacitance tests are under 1MHz, and the Leakage current is measured at working voltage

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		V _{DC} (Max)	V _B (1mA)	V _C (max.)	C(1MHz)	V _{ESD}	V _{ESD}
0402	SFI0402-240E0R8PP-LF	24V	100~150V	200V	0.8pF(+80~-20%)	8KV	15KV
	SFI0402-240E1R8PP-LF	24V	100~150V	200V	1.8pF(+80~-20%)	8KV	15KV
	SFI0402-240E2R5PP-LF	24V	100~150V	200V	2.5pF(+80~-20%)	8KV	15KV
	SFI0402-240E3R0PP-LF	24V	48~72V	110V	3.0pF(+80~-20%)	8KV	15KV
	SFI0402-420E0R8PP-LF	42V	100~150V	200V	0.8pF(+80~-20%)	8KV	15KV
	SFI0402-420E2R5PP-LF	42V	100~150V	200V	2.5pF(+80~-20%)	8KV	15KV
0603	SFI0603-050E050PP-LF	5V	20~30V	55V	5.0pF(+80~-20%)	8KV	15KV
	SFI0603-050E100NP-LF	5V	24~36V	65V	10pF(±30%)	8KV	15KV
	SFI0603-050E220NP-LF	5V	15~25V	34V	22pF(±30%)	8KV	15KV
	SFI0603-050E330NP-LF	5V	15~25V	34V	33pF(±30%)	8KV	15KV
	SFI0603-050E560NP-LF	5V	15~25V	36V	56pF(±30%)	8KV	15KV
	SFI0603-050E101NP-LF	5V	15~25V	36V	100pF(±30%)	8KV	15KV
	SFI0603-5R5T100NP-LF	5V	15~20V	36V	10pF(±30%)	8KV	15KV
	SFI0603-120E050PP-LF	12V	33~50V	85V	5.0pF(+80~-20%)	8KV	15KV
	SFI0603-120E100NP-LF	12V	27~42V	60V	10pF(±30%)	8KV	15KV
	SFI0603-120E220NP-LF	12V	20~30V	55V	22pF(±30%)	8KV	15KV
	SFI0603-120E330NP-LF	12V	20~30V	55V	33pF(±30%)	8KV	15KV
	SFI0603-120E101NP-LF	12V	20~30V	55V	100pF(±30%)	8KV	15KV
	SFI0603-240E0R8PP-LF	24V	100~150V	200V	0.8pF(+80~-20%)	8KV	15KV
	SFI0603-240E2R5PP-LF	24V	100~150V	200V	2.5pF(+80~-20%)	8KV	15KV
SFI0603-240E3R0PP-LF	24V	48~72V	110V	3.0pF(+80~-20%)	8KV	15KV	
0805	SFI0805-050E560NP-LF	5V	20~28V	60V	56pF(±30%)	8KV	15KV
	SFI0805-120E560NP-LF	12V	20~30V	60V	56pF(±30%)	8KV	15KV

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