

# LITTELFUSE Silicon Protection Arrays



Transient Protection

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RoHS Compliant This product is RoHS compliant.

## LITTELFUSE SILICON PROTECTION ARRAYS

### Features:

- Low Capacitance
- EFT Protection
- Small Package saves board space
- ESD Protection
- Low Leakage Current
- ROHS compliant



RoHS Compliant

### Protection Array for ESD and Overvoltage Protection

MOUSER STOCK NO.	Littelfuse Part No.	Package	V <sub>ESD</sub> (kV)	Channels	Polarity	V <sub>rm</sub>	I Leakage	C <sub>TYP</sub> (pF)	Price Each			
									1	10	100	250
576-SP720ABG	SP720ABG	SOIC-16	4	14	Bi-Polar	30	0.02	3				
576-SP720APP	SP720APP	SOIC-16	4	14	Bi-Polar	30	0.02	3				
576-SP721ABG	SP721ABG	SOIC-8	4	6	Bi-Polar	30	0.02	3				
576-SP721APP	SP721APP	PDIP-8	4	6	Bi-Polar	30	0.02	3				
576-SP723ABG	SP723ABG	SOIC-8	8	6	Bi-Polar	30	0.02	5				
576-SP723APP	SP723APP	PDIP-8	8	6	Bi-Polar	30	0.02	5				

### SP050xBA Series - Surface Mount TVS Avalanche Diode Array

MOUSER STOCK NO.	Littelfuse Part No.	Package	V <sub>ESD</sub> (kV)	Channels	Polarity	V <sub>rm</sub>	I Leakage	C <sub>TYP</sub> (pF)	Price Each			Reel Qty	Price Per Piece
									1	10	100		
576-SP0502BAHTG	SP0502BAHTG	SOT23-3	20	2	Bi-Polar	5.5	0.1	30				3000	
576-SP0502BAJTG	SP0502BAJTG	SC70-3	20	2	Bi-Polar	5.5	0.1	30				3000	
576-SP0504BAHTG	SP0504BAHTG	SOT23-5	20	4	Bi-Polar	5.5	0.1	30				3000	
576-SP0504BAJTG	SP0504BAJTG	SC70-5	20	4	Bi-Polar	5.5	0.1	30				3000	
576-SP0505BAHTG	SP0505BAHTG	SOT23-6	20	5	Bi-Polar	5.5	0.1	30				3000	
576-SP0505BAJTG	SP0505BAJTG	SC70-6	20	5	Bi-Polar	5.5	0.1	30				3000	
576-SP0506BAATG	SP0506BAATG	MSOP-8	20	6	Bi-Polar	5.5	0.1	30				4000	

### SP1001 Series - 8pF ESD Protection Arrays

576-SP1001-02JTG	SP1001-02JTG	SC70-3	8	2	Bi-Polar	5.5	0.5	8				3000	
576-SP1001-02XTG	SP1001-02XTG	SOT553	8	2	Bi-Polar	5.5	0.5	8				5000	
576-SP1001-04JTG	SP1001-04JTG	SC70-5	8	4	Bi-Polar	5.5	0.5	8				3000	
576-SP1001-04XTG	SP1001-04XTG	SOT553	8	4	Bi-Polar	5.5	0.5	8				5000	
576-SP1001-05JTG	SP1001-05JTG	SC70-6	8	5	Bi-Polar	5.5	0.5	8				3000	
576-SP1001-05XTG	SP1001-05XTG	SOT563	8	5	Bi-Polar	5.5	0.5	8				5000	

### Bi-directional TVS Arrays for ESD Protection

576-SP1002-01JTG	SP1002-01JTG	SC70-3	8	1	Bi-Polar	6	0.5	5				3000	
576-SP1002-02JTG	SP1002-02JTG	SC70-5	8	2	Bi-Polar	6	0.5	5				3000	
576-SP1003-01DTG	SP1003-01DTG	SC70-3	25	1	Bi-Polar	5	0.1	30				8000	
576-SP1004-04VTG	SP1004-04VTG	SOT953	8	4	Bi-Polar	6	0.1	5				8000	

### Uni-directional TVS Arrays for ESD Protection

576-SP1010-04UTG	SP1010-04UTG	µDFN-6	8	4	Bi-Polar	6	1	3.5				3000	
576-SP1011-04UTG	SP1011-04UTG	µDFN-6	15	4	Bi-Polar	6	1	7				3000	

### Low Capacitance ESD Protection Arrays

576-SP3001-04JTG	SP3001-04JTG	SC70-6	8	4	Bi-Polar	6	0.5	0.65				3000	
576-SP3002-04HTG	SP3002-04HTG	SOT23-6	12	4	Bi-Polar	6	0.5	0.85				3000	
576-SP3002-04JTG	SP3002-04JTG	SC70-6	12	4	Bi-Polar	6	0.5	0.85				3000	
576-SP3002-04UTG	SP3002-04UTG	µDFN-6	12	4	Bi-Polar	6	0.5	0.85				3000	
576-SP3003-02JTG	SP3003-02JTG	SC70-5	8	2	Bi-Polar	6	0.5	0.65				3000	
576-SP3003-02XTG	SP3003-02XTG	SOT553	8	2	Bi-Polar	6	0.5	0.65				5000	
576-SP3003-04ATG	SP3003-04ATG	MSOP-10	8	4	Bi-Polar	6	0.5	0.65				4000	
576-SP3003-04JTG	SP3003-04JTG	SC70-6	8	4	Bi-Polar	6	0.5	0.65				3000	
576-SP3003-04XTG	SP3003-04XTG	SOT563	8	4	Bi-Polar	6	0.5	0.65				5000	
576-SP3010-04UTG	SP3010-04UTG	µDFN-10	8	4	Bi-Polar	6	0.5	0.45				3000	
576-SP3050-04HTG	SP3050-04HTG	SOT23-6	20	4	Bi-Polar	6	0.5	2.0				3000	

### Low Capacitance TVS Protection for High-Speed Data Interfaces

576-SP03-3.3BTG	SP03-3.3BTG	SOIC-8	30	2	Bi-Polar	3.3	1	16				2500	
576-SP03-6BTG	SP03-6BTG	SOIC-8	30	2	Bi-Polar	6	25	16				2500	

### SP4060 Series - Low Voltage, Low Capacitance Diode Array

576-SP4060-08ATG	SP4060-08ATG	MSOP-10	30	8	Bi-Polar	2.5	1	4.4				3000	
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### SP6001 and SP6002 Series - EMI Filter Arrays with ESD Protection

576-SP6001-04UTG-1	SP6001-04UTG-1	µDFN-8	30	4	-	6	1	12				3000	
576-SP6001-06UTG-1	SP6001-06UTG-1	µDFN-12	30	6	-	6	1	12				3000	
576-SP6002-04UTG-1	SP6002-04UTG-1	µDFN-8	30	4	-	6	1	15				3000	
576-SP6002-06UTG-1	SP6002-06UTG-1	µDFN-12	30	6	-	6	1	15				3000	

### Low Voltage, Diode Compensated TVS Arrays for ESD and Lightning Protection

576-SPLV2.8-4BTG	SPLV2.8-4BTG	SOIC-8	30	4	-	2.8	1	3.8				3000	
576-SPLV2.8HTG	SPLV2.8HTG	SOT23-3	30	1	-	2.8	1	3.8				3000	

## LITTELFUSE SILICON PROTECTION ARRAY KIT

Littelfuse's Silicon Protection Arrays are an ideal choice for suppressing ESD as their speed and clamping levels are essential to protect today's integrated circuits unlike the previous MLV, MOV, and polymer technologies. The SPATM portfolio offers a wide range of devices to suit the majority of application needs available in the market today, and this guide will steer the designer toward the appropriate ESD device for the particular application they're trying to protect.



RoHS Compliant

MOUSER STOCK NO.	Description	Price Each	
		1	5
370-SPA-1	Kit Includes (10 Pieces of Each): SP0502BAHTG, SP0502BAJTG, SP0504BAHTG, SP0504BAJTG, SP0505BAHTG, SP0505BAJTG, SP0506BAHTG, SP1003-01DTG, SP1001-02JTG, SP1001-02XTG, SP1001-04JTG, SP1001-04XTG, SP1001-05JTG, SP1001-05XTG, SP1010-04UTG, SP1011-04UTG, SP1002-01JTG, SP1002-02JTG, SP1004-04VTG, SP3001-04JTG, SP3002-04HTG, SP3002-04JTG, SP3002-04UTG, SP3003-02JTG, SP3003-02XTG, SP3003-04ATG, SP3003-04JTG, SP3003-04XTG, SP3004-04XTG, SP3010-04UTG, SP3050-04HTG, SP4060-08ATG, SP03-3.3BTG, SP03-6BTG, SPLV2.8-4BTG, SP6001-04UTG-1, SP6001-06UTG-1, SP6002-04UTG-1, SP6002-06UTG-1		

