

TRANSIENT VOLTAGE SUPPRESSION DIODES

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ESD PROTECTION DIODES (CONT.)

Part Numbering System					
SP	3003 (05)	-0x	XXX	T	G
TVS Diode Arrays (SPA® Diodes)	Series	Number of Channels: 02 = 2 ch 04 = 4 ch 08 = 8 ch	Package: A = MSOP-10, 4000 quantity J = SC70-5/SC70-6, 3000 quantity X = SOT553/ SOT563, 5000 quantity U = µDFN-6L, 3000 quantity BAA = MSOP-8 BAH = SOT23-3, 5, 6 BAJ = SC70-3, 5, 6	T = Tape & Reel	Blank = NOT Green/ RoHS/Lead Free G = Green

Mfg. Part No.	Vclamp Max.	Pd	Case Style	Stock No.	Tape Cut 1-24+
● SP0524PUTG	7V	20W	UDFN	53W3288	---
● SP0504BAJTG	8V	200mW	SC-70	92K8962	---
● SP0505BAJTG	8V	200mW	SC-70	92K8964	---
● SP0503BAHTG	8V	225mW	SOT-143	92K8959	0.89
● SP0504BAHTG	8V	225mW	SOT-23	92K8961	---
● SP0505BAHTG	8V	225mW	SOT-23	92K8963	1.02
● SP0506BAATG	8V	500mW	MSOP	92K8965	---
● SP2504NUTG	11.5V	300W	UDFN	53W3292	---
● SP3304NUTG	11.5V	300W	UDFN	53W3294	---
● SP3010-04UTG	12.3V	18W	UDFN	72R4431	0.81
● SP3003-02JTG	15V	12.5W	SC-70	31T1604	0.28
● SRV05-4HTG	15V	150W	SOT-23	53W3296	0.28
● SLVU2.8-4BTG	15V	600W	SOIC	53W3283	1.87
● SLVU2.8HTG	15V	600W	SOT-23	53W3284	---
● SR05-02CTG	18V	450W	SOT-143	04X5215	---
● SP2502LBTG	30V	2.1kW	SOIC	53W3290	---

PIM_211438

1SMx 400W TRANSIENT VOLTAGE SUPPRESSORS

ON Semiconductor



Features:

- All Parts supplied in exclusive, cost-effective, highly reliable surface mount package
- Response time typically < 1ns
- Low Leakage < 5 A Above 10V



Mfg. Part No.	Case Style	Vrwm	Vclamp Max.	Ppp	Breakdown Voltage	Stock No.	Tape Cut 1-9+
Bidirectional							
● 1SMB12CAT3G	403C-2	12V	19.9V	600W	13.3V-14.7V	45J2430	---
● 1SMB18CAT3G	403C-2	18V	29.2V	600W	20V-22.1V	42K3086	---
● 1SMB20CAT3G	403C-2	20V	32.4V	600W	22.2V-24.5V	10N9658	---
● 1SMB30CAT3G	403C-2	30V	48.4V	600W	33.3V-36.8V	45J2439	---
● 1SMB10CAT3G	DO-214AA-2	10V	17V	600W	11.1V-12.27V	45J2427	---
● 1SMB15CAT3G	DO-214AA-2	15V	24.4V	600W	16.7V-18.5V	45J2433	---
● 1SMB16CAT3G	DO-214AA-2	16V	26V	600W	17.8V-19.7V	42K3085	---
● 1SMB24CAT3G	DO-214AA-2	24V	38.9V	600W	26.7V-29.5V	10N9737	---
● 1SMB28CAT3G	DO-214AA-2	28V	45.4V	600W	31.1V-34.4V	10N9659	---
● 1SMB36CAT3G	DO-214AA-2	36V	58.1V	600W	40V-44.2V	26K5266	---
● 1SMB40CAT3G	DO-214AA-2	40V	64.5V	600W	44.4V-49.1V	10N9661	---
● 1SMB75CAT3G	DO-214AA-2	75V	121V	600W	83.3V-92.07V	10N9675	---
● 1SMA12CAT3G	DO-214AC-2	12V	19.9V	400W	13.3V-14.7V	10N9650	---
● 1SMA15CAT3G	DO-214AC-2	15V	24.4V	400W	16.7V-18.46V	98H1003	---
● 1SMA33CAT3G	DO-214AC-2	33V	53.3V	400W	36.7V-40.6V	10N9652	---
● 1SMA70CAT3G	DO-214AC-2	70V	113V	400W	77.8V-86V	10N9655	---
Unidirectional							
● 1SMB20AT3G	403A-2	20V	32.4V	600W	22.2V-24.5V	10N9657	---
● 1SMB48AT3G	403A-2	48V	77.4V	600W	53.3V-58.9V	42K3092	---
● 1SMB5.0AT3G	DO-214AA-2	5V	9.2V	600W	6.4V-7V	45J2445	---
● 1SMB7.0AT3G	DO-214AA-2	7V	12V	600W	7.78V-8.6V	10N9672	---
● 1SMB8.5AT3G	DO-214AA-2	8.5V	14.4V	600W	9.44V-10.4V	10N9676	---
● 1SMB18AT3G	DO-214AA-2	18V	29.2V	600W	20V-22.1V	45J2434	---
● 1SMB24AT3G	DO-214AA-2	24V	38.9V	600W	26.7V-29.5V	45J2436	---
● 1SMB28AT3G	DO-214AA-2	28V	45.4V	600W	31.1V-34.4V	45J2437	---
● 1SMB33AT3G	DO-214AA-2	33V	53.3V	600W	36.7V-40.6V	45J2440	---
● 1SMB36AT3G	DO-214AA-2	36V	58.1V	600W	40V-44.2V	45J2442	---
● 1SMB54AT3G	DO-214AA-2	54V	87.1V	600W	60V-66.3V	10N9663	0.07
● 1SMC5.0AT3G	DO-214AB-2	5V	9.2V	1.5kW	6.4V-7V	45J2468	---
● 1SMC6.0AT3G	DO-214AB-2	6V	10.3V	1.5kW	6.67V-7.37V	10N9683	---
● 1SMC12AT3G	DO-214AB-2	12V	19.9V	1.5kW	13.3V-14.7V	10N9679	---
● 1SMC15AT3G	DO-214AB-2	15V	24.4V	1.5kW	16.7V-18.5V	10N9680	---

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1SMx 400W TRANSIENT VOLTAGE SUPPRESSORS (CONT.)

Mfg. Part No.	Case Style	Vrwm	Vclamp Max.	Ppp	Breakdown Voltage	Stock No.	Tape Cut 1-9+
Unidirectional							
● 1SMC18AT3G	DO-214AB-2	18V	29.2V	1.5kW	20V-22.1V	10N9681	---
● 1SMC24AT3G	DO-214AB-2	24V	38.9V	1.5kW	26.7V-29.5V	71J9237	---
● 1SMC26AT3G	DO-214AB-2	26V	42.1V	1.5kW	28.9V-31.9V	26K5270	---
● 1SMC28AT3G	DO-214AB-2	28V	45.4V	1.5kW	31.1V-34.4V	42K3116	---
● 1SMC33AT3G	DO-214AB-2	33V	53.3V	1.5kW	36.7V-40.6V	88H5167	---
● 1SMC36AT3G	DO-214AB-2	36V	58.1V	1.5kW	40V-44.2V	42K3118	---
● 1SMC54AT3G	DO-214AB-2	54V	87.1V	1.5kW	60V-66.3V	42K3119	---
● 1SMC58AT3G	DO-214AB-2	58V	93.6V	1.5kW	64.4V-71.2V	10N9682	---
● 1SMA5.0AT3G	DO-214AC-2	5V	9.2V	400W	6.4V-7V	98H1010	0.19
● 1SMA6.0AT3G	DO-214AC-2	6V	10.3V	400W	6.67V-7.37V	10N9654	---
● 1SMA12AT3G	DO-214AC-2	12V	19.9V	400W	13.3V-14.7V	10N9649	---
● 1SMA15AT3G	DO-214AC-2	15V	24.4V	400W	16.7V-18.5V	10N9651	---
● 1SMA33AT3G	DO-214AC-2	33V	53.3V	400W	36.7V-40.6V	26K5247	---
● 1SMA36AT3G	DO-214AC-2	36V	58.1V	400W	40V-44.2V	10N9653	---

PIM_169710

SMBJ SERIES 600W UNIDIRECTIONAL TRANSIENT VOLTAGE SUPPRESSION DIODES



BOURNS®



Mfg. Part No.	Case Style	Vrwm	Vclamp Max.	Ppp	Breakdown Voltage	Stock No.	Tape Cut 1-24+
Bidirectional							
● SMBJ5.0CA	DO-214AA-2	5V	9.2V	600W	6.4V-7.25V	67R1666	0.07
● SMBJ6.0CA	DO-214AA-2	6V	10.3V	600W	6.67V-7.67V	67R1675	---
● SMBJ6.5CA	DO-214AA-2	6.5V	11.2V	600W	7.22V-8.3V	67R1677	0.07
● SMBJ7.0CA	DO-214AA-2	7V	12V	600W	7.78V-8.95V	67R1683	0.07
● SMBJ7.5CA	DO-214AA-2	7.5V	12.9V	600W	8.33V-9.58V	67R1685	0.45
● SMBJ8.5CA	DO-214AA-2	8.5V	14.4V	600W	9.44V-10.8V	67R1695	---
● SMBJ10CA	DO-214AA-2	10V	17V	600W	11.1V-12.8V	67R1610	---
● SMBJ12CA	DO-214AA-2	12V	19.9V	600W	13.3V-14.7V	67R1618	0.12
● SMBJ15CA	DO-214AA-2	13V	21.5V	600W	14.4V-16.5V	67R1622	---
● SMBJ13CA	DO-214AA-2	15V	24.4V	600W	16.7V-19.2V	67R1628	0.35
● SMBJ16CA	DO-214AA-2	16V	26V	600W	17.8V-20.5V	67R1632	0.39
● SMBJ18CA	DO-214AA-2	18V	29.2V	600W	20V-23.3V	67R1640	0.12
● SMBJ20CA	DO-214AA-2	20V	32.4V	600W	22.2V-25.5V	67R1642	---
● SMBJ26CA	DO-214AA-2	26V	42.1V	600W	28.9V-32.2V	67R1648	0.36
● SMBJ28CA	DO-214AA-2	28V	45.4V	600W	31.1V-35.8V	67R1650	0.07
● SMBJ30CA	DO-214AA-2	30V	48.4V	600W	33.3V-38.3V	67R1652	0.12
● SMBJ33CA	DO-214AA-2	33V	53.3V	600W	36.7V-42.2V	67R1654	0.07
● SMBJ36CA	DO-214AA-2	36V	58.1V	600W	40V-46V	67R1656	0.12
● SMBJ40CA	DO-214AA-2	40V	64.5V	600W	44.4V-51.1V	67R1658	---
● SMBJ43CA	DO-214AA-2	43V	69.4V	600W	47.8V-52.8V	67R1660	---
● SMBJ51CA	DO-214AA-2	51V	82.4V	600W	56.7V-65.2V	67R1668	---
● SMBJ170CA	DO-214AA-2	170V	275V	600W	189V-218V	67R1638	---
Unidirectional							
● SMBJ5.0A	DO-214AA-2	5V	9.2V	600W	6.4V-7.25V	67R1665	0.06
● SMBJ6.0A	DO-214AA-2	6V	10.3V	600W	6.67V-7.67V	67R1673	0.38
● SMBJ10A	DO-214AA-2	10V	17V	600W	11.1V-12.8V	67R1609	---
● SMBJ12A	DO-214AA-2	12V	19.9V	600W	13.3V-15.3V	67R1617	0.06
● SMBJ13A	DO-214AA-2	13V	21.5V	600W	14.4V-16.5V	67R1621	---
● SMBJ18A	DO-214AA-2	18V	29.2V	600W	20V-23.3V	67R1639	0.30
● SMBJ20A	DO-214AA-2	20V	32.4V	600W	22.2V-25.5V	67R1641	0.33
● SMBJ24A	DO-214AA-2	24V	38.9V	600W	26.7V-30.7V	67R1645	---
● SMBJ28A	DO-214AA-2	28V	45.4V	600W	31.1V-35.8V	67R1649	0.29
● SMBJ30A	DO-214AA-2	30V	48.4V	600W	33.3V-38.3V	67R1651	0.06
● SMBJ33A	DO-214AA-2	33V	53.3V	600W	36.7V-42.2V	67R1653	0.33
● SMBJ36A	DO-214AA-2	36V	58.1V	600W	40V-46V	67R1655	---

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