



**THE DATASHEET OF
P6SMBJ400A**



Silicon Avalanche Diodes

600W Surface Mount Transient Voltage Suppressors

RoHS P6SMBJ Series



ELECTRICAL SPECIFICATION @ Tamb 25°C

Part Number (Uni)	Part Number (Bi)	Device Marking Code		Reverse Stand off Voltage Vr (Volts)	Breakdown Voltage VBR (Volts) @ IT		Test Current IT (mA)	Maximum Clamping Voltage Vc @ IPP (Volts)	Maximum Peak Pulse Current IPP (A)	Maximum Reverse Leakage IR @ VR (µA)
		UNI	BI		MIN	MAX				
P6SMBJ7.5A	P6SMBJ7.5CA	7V5A	7V5CA	6.40	7.13	7.88	10	11.3	54.0	500
P6SMBJ8.2A	P6SMBJ8.2CA	8V2A	8V2CA	7.02	7.79	8.61	10	12.1	50.4	200
P6SMBJ9.1A	P6SMBJ9.1CA	9V1A	9V1CA	7.78	8.65	9.55	1	13.4	45.5	50
P6SMBJ10A	P6SMBJ10CA	10A	10CA	8.55	9.50	10.50	1	14.5	42.1	10
P6SMBJ11A	P6SMBJ11CA	11A	11CA	9.40	10.50	11.60	1	15.7	39.1	5
P6SMBJ12A	P6SMBJ12CA	12A	12CA	10.20	11.40	12.60	1	17.0	36.5	5
P6SMBJ13A	P6SMBJ13CA	13A	13CA	11.10	12.40	13.70	1	18.2	34.0	5
P6SMBJ15A	P6SMBJ15CA	15A	15CA	12.80	14.30	15.80	1	21.2	30.8	5
P6SMBJ16A	P6SMBJ16CA	16A	16CA	13.60	15.20	16.80	1	22.5	27.1	5
P6SMBJ18A	P6SMBJ18CA	18A	18CA	15.30	17.10	18.90	1	25.5	24.2	5
P6SMBJ20A	P6SMBJ20CA	20A	20CA	17.10	19.00	21.00	1	29.0	22.0	5
P6SMBJ22A	P6SMBJ22CA	22A	22CA	18.80	20.90	23.10	1	30.6	19.9	5
P6SMBJ24A	P6SMBJ24CA	24A	24CA	20.50	22.80	25.20	1	33.2	18.4	5
P6SMBJ27A	P6SMBJ27CA	27A	27CA	23.10	25.70	28.40	1	37.5	16.3	5
P6SMBJ30A	P6SMBJ30CA	30A	30CA	25.60	28.50	31.50	1	41.4	14.7	5
P6SMBJ33A	P6SMBJ33CA	33A	33CA	28.20	31.40	34.70	1	45.7	13.3	5
P6SMBJ36A	P6SMBJ36CA	36A	36CA	30.80	34.20	38.00	1	49.9	12.2	5
P6SMBJ39A	P6SMBJ39CA	39A	39CA	33.30	37.00	41.40	1	53.9	11.3	5
P6SMBJ43A	P6SMBJ43CA	43A	43CA	36.80	39.90	45.20	1	59.3	10.3	5
P6SMBJ47A	P6SMBJ47CA	47A	47CA	40.20	44.70	49.40	1	64.8	9.4	5
P6SMBJ51A	P6SMBJ51CA	51A	51CA	43.60	48.50	53.60	1	70.1	8.7	5
P6SMBJ56A	P6SMBJ56CA	56A	56CA	47.00	52.00	58.80	1	77.0	7.9	5
P6SMBJ62A	P6SMBJ62CA	62A	62CA	50.00	56.00	65.10	1	85.0	7.2	5
P6SMBJ68A	P6SMBJ68CA	68A	68CA	53.10	59.40	71.40	1	92.0	6.6	5
P6SMBJ75A	P6SMBJ75CA	75A	75CA	56.00	62.00	78.80	1	103.0	5.9	5
P6SMBJ82A	P6SMBJ82CA	82A	82CA	58.00	67.00	86.10	1	113.0	5.4	5
P6SMBJ91A	P6SMBJ91CA	91A	91CA	61.00	71.80	95.50	1	125.0	4.9	5
P6SMBJ100A	P6SMBJ100CA	100A	100CA	63.00	77.00	105.00	1	137.0	4.5	5
P6SMBJ110A	P6SMBJ110CA	110A	110CA	65.00	82.00	116.00	1	152.0	4.0	5
P6SMBJ120A	P6SMBJ120CA	120A	120CA	67.00	87.00	126.00	1	165.0	3.7	5
P6SMBJ130A	P6SMBJ130CA	130A	130CA	69.00	92.00	137.00	1	179.0	3.4	5
P6SMBJ150A	P6SMBJ150CA	150A	150CA	74.00	100.00	158.00	1	207.0	2.9	5
P6SMBJ160A	P6SMBJ160CA	160A	160CA	76.00	106.00	168.00	1	219.0	2.8	5
P6SMBJ170A	P6SMBJ170CA	170A	170CA	78.00	112.00	179.00	1	234.0	2.6	5
P6SMBJ180A	P6SMBJ180CA	180A	180CA	80.00	118.00	189.00	1	246.0	2.5	5
P6SMBJ200A	P6SMBJ200CA	200A	200CA	84.00	126.00	210.00	1	274.0	2.2	5
P6SMBJ220A	P6SMBJ220CA	220A	220CA	88.00	135.00	231.00	1	328.0	1.9	5
P6SMBJ250A	P6SMBJ250CA	250A	250CA	93.00	145.00	263.00	1	344.0	1.8	5
P6SMBJ300A	P6SMBJ300CA	300A	300CA	100.00	158.00	315.00	1	414.0	1.5	5
P6SMBJ350A	P6SMBJ350CA	350A	350CA	107.00	172.00	368.00	1	482.0	1.3	5
P6SMBJ400A	P6SMBJ400CA	400A	400CA	114.00	187.00	420.00	1	548.0	1.1	5
P6SMBJ440A	P6SMBJ440CA	440A	440CA	120.00	203.00	472.00	1	602.0	1.0	5
P6SMBJ480A	P6SMBJ480CA	480A	480CA	126.00	220.00	524.00	1	658.0	0.9	5
P6SMBJ510A	P6SMBJ510CA	510A	510CA	132.00	237.00	576.00	1	698.0	0.9	5
P6SMBJ530A	P6SMBJ530CA	530A	530CA	136.00	255.00	628.00	1	725.0	0.8	5
P6SMBJ540A	P6SMBJ540CA	540A	540CA	138.00	264.00	646.00	1	740.0	0.8	5
P6SMBJ550A	P6SMBJ550CA	550A	550CA	140.00	273.00	675.00	1	760.0	0.8	5

For bidirectional type having Vrwm of 10 volts and less, the IR limit is double.
For parts without A (VBR is ± 10%).

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Silicon Avalanche Diodes

600W Surface Mount Transient Voltage Suppressors

RoHS P6SMBJ Series



Ratings and Characteristic Curves $T_A=25^\circ\text{C}$ unless otherwise noted



Fig. 1 Peak Pulse Power Rating



Fig. 2 Pulse Derating Curve



Fig. 3 Pulse Waveform



Fig. 4- Typical Junction Capacitance



Fig. 5- Typ. Transient Thermal Impedance



Fig. 6- Maximum Non-Repetitive Peak Forward Surge Current

OBSOLETE

Silicon Avalanche Diodes

600W Surface Mount Transient Voltage Suppressors

RoHS P6SMBJ Series



Package Outline Dimensions and Pad Layout

DO-214AA (SMB J-Bend)



Dimensions in inches and (millimeters)

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