

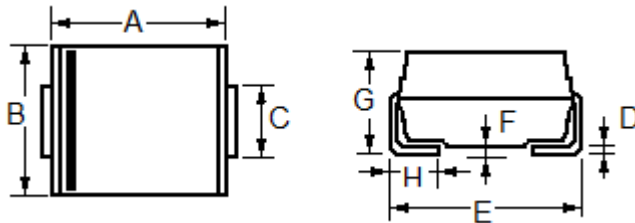


贴片瞬态抑制二极管

Surface Mount TVS

P6SMB6.8 --- P6SMB440CA

- 600 Watt Peak Power
- Dimension



SMB (DO-214AA)

| Dim | Millimeters | | Inches | |
|-----|-------------|-------|--------|-------|
| | Min | Max | Min | Max |
| A | 4.06 | 4.57 | 0.160 | 0.180 |
| B | 3.30 | 3.94 | 0.130 | 0.155 |
| C | 1.95 | 2.20 | 0.077 | 0.086 |
| D | 0.125 | 0.305 | 0.006 | 0.012 |
| E | 5.21 | 5.59 | 0.205 | 0.220 |
| F | ---- | 0.203 | ---- | 0.008 |
| G | 2.13 | 2.44 | 0.084 | 0.096 |
| H | 0.76 | 1.52 | 0.030 | 0.060 |

- Specification

| Type Number | | Marking | | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I _T | Breakdown Voltage Max. @ I _T | Test Current | Maximum Clamping Voltage @I _{PP} | Peak Pulse Current | Reverse Leakage @V _{RMW} |
|-------------|------------|---------|-------|---------------------------|--|---|---------------------|---|---------------------|-----------------------------------|
| (Uni) | (Bi) | (Uni) | (Bi) | V _{RMW} (V) | V _{BR MIN} (V) | V _{BR MAX} (V) | I _T (mA) | V _C (V) | I _{PP} (A) | I _R (uA) |
| P6SMB6.8 | P6SMB6.8C | 6V8 | 6V8C | 5.50 | 6.12 | 7.48 | 10.0 | 10.8 | 55.6 | 1000.0 |
| P6SMB6.8A | P6SMB6.8CA | 6V8A | 6V8CA | 5.80 | 6.45 | 7.14 | 10.0 | 10.5 | 57.1 | 1000.0 |
| P6SMB7.5 | P6SMB7.5C | 7V5 | 7V5C | 6.05 | 6.75 | 8.25 | 10.0 | 11.7 | 51.3 | 500.0 |
| P6SMB7.5A | P6SMB7.5CA | 7V5A | 7V5CA | 6.40 | 7.13 | 7.88 | 10.0 | 11.3 | 53.1 | 500.0 |
| P6SMB8.2 | P6SMB8.2C | 8V2 | 8V2C | 6.63 | 7.38 | 9.02 | 10.0 | 12.5 | 48.0 | 200.0 |
| P6SMB8.2A | P6SMB8.2CA | 8V2A | 8V2CA | 7.02 | 7.79 | 8.61 | 10.0 | 12.1 | 49.6 | 200.0 |
| P6SMB9.1 | P6SMB9.1C | 9V1 | 9V1C | 7.37 | 8.19 | 10.0 | 1.0 | 13.8 | 43.5 | 50.0 |
| P6SMB9.1A | P6SMB9.1CA | 9V1A | 9V1CA | 7.78 | 8.65 | 9.55 | 1.0 | 13.4 | 44.8 | 50.0 |
| P6SMB10 | P6SMB10C | 10 | 10C | 8.10 | 9.00 | 11.0 | 1.0 | 15.0 | 40.0 | 10.0 |
| P6SMB10A | P6SMB10CA | 10A | 10CA | 8.55 | 9.50 | 10.5 | 1.0 | 14.5 | 41.4 | 10.0 |
| P6SMB11 | P6SMB11C | 11 | 11C | 8.92 | 9.90 | 12.1 | 1.0 | 16.2 | 37.0 | 5.0 |
| P6SMB11A | P6SMB11CA | 11A | 11CA | 9.40 | 10.5 | 11.6 | 1.0 | 15.6 | 38.5 | 5.0 |
| P6SMB12 | P6SMB12C | 12 | 12C | 9.72 | 10.8 | 13.2 | 1.0 | 17.3 | 34.7 | 5.0 |
| P6SMB12A | P6SMB12CA | 12A | 12CA | 10.2 | 11.4 | 12.6 | 1.0 | 16.7 | 35.9 | 5.0 |
| P6SMB13 | P6SMB13C | 13 | 13C | 10.5 | 11.7 | 14.3 | 1.0 | 19.0 | 31.6 | 5.0 |
| P6SMB13A | P6SMB13CA | 13A | 13CA | 11.1 | 12.4 | 13.7 | 1.0 | 18.2 | 33.0 | 5.0 |
| P6SMB15 | P6SMB15C | 15 | 15C | 12.1 | 13.5 | 16.5 | 1.0 | 22.0 | 27.3 | 5.0 |
| P6SMB15A | P6SMB15CA | 15A | 15CA | 12.8 | 14.3 | 15.8 | 1.0 | 21.2 | 28.3 | 5.0 |
| P6SMB16 | P6SMB16C | 16 | 16C | 12.9 | 14.4 | 17.6 | 1.0 | 23.5 | 25.5 | 5.0 |
| P6SMB16A | P6SMB16CA | 16A | 16CA | 13.6 | 15.2 | 16.8 | 1.0 | 22.5 | 26.7 | 5.0 |
| P6SMB18 | P6SMB18C | 18 | 18C | 14.5 | 16.2 | 19.8 | 1.0 | 26.5 | 22.6 | 5.0 |
| P6SMB18A | P6SMB18CA | 18A | 18CA | 15.3 | 17.1 | 18.9 | 1.0 | 25.2 | 23.8 | 5.0 |
| P6SMB20 | P6SMB20C | 20 | 20C | 16.2 | 18.0 | 22.0 | 1.0 | 29.1 | 20.6 | 5.0 |
| P6SMB20A | P6SMB20CA | 20A | 20CA | 17.1 | 19.0 | 21.0 | 1.0 | 27.7 | 21.7 | 5.0 |

※ For Bi-directional type having VRWM of 10 Volts and less, the IR limit is double



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| Type Number | | Marking | | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I _T | Breakdown Voltage Max. @ I _T | Test Current | Maximum Clamping Voltage @I _{PP} | Peak Pulse Current | Reverse Leakage @V _{RMW} |
|-------------|------------|---------|-------|---------------------------|--|---|---------------------|---|---------------------|-----------------------------------|
| (Uni) | (Bi) | (Uni) | (Bi) | V _{RMW} (V) | V _{BR MIN} (V) | V _{BR MAX} (V) | I _T (mA) | V _C (V) | I _{PP} (A) | I _R (μ A) |
| P6SMB22 | P6SMB22C | 22 | 22C | 17.8 | 19.8 | 24.2 | 1.0 | 31.9 | 18.8 | 5.0 |
| P6SMB22A | P6SMB22CA | 22A | 22CA | 18.8 | 20.9 | 23.1 | 1.0 | 30.6 | 19.6 | 5.0 |
| P6SMB24 | P6SMB24C | 24 | 24C | 19.4 | 21.6 | 26.4 | 1.0 | 34.7 | 17.3 | 5.0 |
| P6SMB24A | P6SMB24CA | 24A | 24CA | 20.5 | 22.8 | 25.2 | 1.0 | 33.2 | 18.1 | 5.0 |
| P6SMB27 | P6SMB27C | 27 | 27C | 21.8 | 24.3 | 29.7 | 1.0 | 39.1 | 15.3 | 5.0 |
| P6SMB27A | P6SMB27CA | 27A | 27CA | 23.1 | 25.7 | 28.4 | 1.0 | 37.5 | 16.0 | 5.0 |
| P6SMB30 | P6SMB30C | 30 | 30C | 24.3 | 27.0 | 33.0 | 1.0 | 43.5 | 13.8 | 5.0 |
| P6SMB30A | P6SMB30CA | 30A | 30CA | 25.6 | 28.5 | 31.5 | 1.0 | 41.4 | 14.5 | 5.0 |
| P6SMB33 | P6SMB33C | 33 | 33C | 26.8 | 29.7 | 36.3 | 1.0 | 47.7 | 12.6 | 5.0 |
| P6SMB33A | P6SMB33CA | 33A | 33CA | 28.2 | 31.4 | 34.7 | 1.0 | 45.7 | 13.1 | 5.0 |
| P6SMB36 | P6SMB36C | 36 | 36C | 29.1 | 32.4 | 39.6 | 1.0 | 52.0 | 11.5 | 5.0 |
| P6SMB36A | P6SMB36CA | 36A | 36CA | 30.8 | 34.2 | 37.8 | 1.0 | 49.9 | 12.0 | 5.0 |
| P6SMB39 | P6SMB39C | 39 | 39C | 31.6 | 35.1 | 42.9 | 1.0 | 56.4 | 10.6 | 5.0 |
| P6SMB39A | P6SMB39CA | 39A | 39CA | 33.3 | 37.1 | 41.0 | 1.0 | 53.9 | 11.1 | 5.0 |
| P6SMB43 | P6SMB43C | 43 | 43C | 34.8 | 38.7 | 47.3 | 1.0 | 61.9 | 9.7 | 5.0 |
| P6SMB43A | P6SMB43CA | 43A | 43CA | 36.8 | 40.9 | 45.2 | 1.0 | 59.3 | 10.1 | 5.0 |
| P6SMB47 | P6SMB47C | 47 | 47C | 38.1 | 42.3 | 51.7 | 1.0 | 67.8 | 8.8 | 5.0 |
| P6SMB47A | P6SMB47CA | 47A | 47CA | 40.2 | 44.7 | 49.4 | 1.0 | 64.8 | 9.3 | 5.0 |
| P6SMB51 | P6SMB51C | 51 | 51C | 41.3 | 45.9 | 56.1 | 1.0 | 73.5 | 8.2 | 5.0 |
| P6SMB51A | P6SMB51CA | 51A | 51CA | 43.6 | 48.5 | 53.6 | 1.0 | 70.1 | 8.6 | 5.0 |
| P6SMB56 | P6SMB56C | 56 | 56C | 45.4 | 50.4 | 61.6 | 1.0 | 80.5 | 7.5 | 5.0 |
| P6SMB56A | P6SMB56CA | 56A | 56CA | 47.8 | 53.2 | 58.8 | 1.0 | 77.0 | 7.8 | 5.0 |
| P6SMB62 | P6SMB62C | 62 | 62C | 50.2 | 55.8 | 68.2 | 1.0 | 89.0 | 6.7 | 5.0 |
| P6SMB62A | P6SMB62CA | 62A | 62CA | 53.0 | 58.9 | 65.1 | 1.0 | 85.0 | 7.1 | 5.0 |
| P6SMB68 | P6SMB68C | 68 | 68C | 55.1 | 61.2 | 74.8 | 1.0 | 98.0 | 6.1 | 5.0 |
| P6SMB68A | P6SMB68CA | 68A | 68CA | 58.1 | 64.6 | 71.4 | 1.0 | 92.0 | 6.5 | 5.0 |
| P6SMB75 | P6SMB75C | 75 | 75C | 60.7 | 67.5 | 82.5 | 1.0 | 108 | 5.6 | 5.0 |
| P6SMB75A | P6SMB75CA | 75A | 75CA | 64.1 | 71.3 | 78.8 | 1.0 | 103 | 5.8 | 5.0 |
| P6SMB82 | P6SMB82C | 82 | 82C | 66.4 | 73.8 | 90.2 | 1.0 | 118 | 5.1 | 5.0 |
| P6SMB82A | P6SMB82CA | 82A | 82CA | 70.1 | 77.9 | 86.1 | 1.0 | 113 | 5.3 | 5.0 |
| P6SMB91 | P6SMB91C | 91 | 91C | 73.7 | 81.9 | 100 | 1.0 | 131 | 4.6 | 5.0 |
| P6SMB91A | P6SMB91CA | 91A | 91CA | 77.8 | 86.5 | 95.5 | 1.0 | 125 | 4.8 | 5.0 |
| P6SMB100 | P6SMB100C | 100 | 100C | 81.0 | 90.0 | 110 | 1.0 | 144 | 4.2 | 5.0 |
| P6SMB100A | P6SMB100CA | 100A | 100CA | 85.5 | 95.0 | 105 | 1.0 | 137 | 4.4 | 5.0 |
| P6SMB110 | P6SMB110C | 110 | 110C | 89.2 | 99.0 | 121 | 1.0 | 158 | 3.8 | 5.0 |
| P6SMB110A | P6SMB110CA | 110A | 110CA | 94.0 | 105 | 116 | 1.0 | 152 | 3.9 | 5.0 |

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| Type Number | | Marking | | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I _T | Breakdown Voltage Max. @ I _T | Test Current | Maximum Clamping Voltage @I _{PP} | Peak Pulse Current | Reverse Leakage @V _{RMW} |
|-------------|------------|---------|-------|---------------------------|--|---|---------------------|---|---------------------|-----------------------------------|
| (Uni) | (Bi) | (Uni) | (Bi) | V _{RMW} (V) | V _{BR MIN} (V) | V _{BR MAX} (V) | I _T (mA) | V _C (V) | I _{PP} (A) | I _R (uA) |
| P6SMB120 | P6SMB120C | 120 | 120C | 97.2 | 108 | 132 | 1.0 | 173 | 3.5 | 5.0 |
| P6SMB120A | P6SMB120CA | 120A | 120CA | 102 | 114 | 126 | 1.0 | 165 | 3.6 | 5.0 |
| P6SMB130 | P6SMB130C | 130 | 130C | 105 | 117 | 143 | 1.0 | 187 | 3.2 | 5.0 |
| P6SMB130A | P6SMB130CA | 130A | 130CA | 111 | 124 | 137 | 1.0 | 179 | 3.4 | 5.0 |
| P6SMB150 | P6SMB150C | 150 | 150C | 121 | 135 | 165 | 1.0 | 215 | 2.8 | 5.0 |
| P6SMB150A | P6SMB150CA | 150A | 150CA | 128 | 143 | 158 | 1.0 | 207 | 2.9 | 5.0 |
| P6SMB160 | P6SMB160C | 160 | 160C | 130 | 144 | 176 | 1.0 | 230 | 2.6 | 5.0 |
| P6SMB160A | P6SMB160CA | 160A | 160CA | 136 | 152 | 168 | 1.0 | 219 | 2.7 | 5.0 |
| P6SMB170 | P6SMB170C | 170 | 170C | 138 | 153 | 187 | 1.0 | 244 | 2.5 | 5.0 |
| P6SMB170A | P6SMB170CA | 170A | 170CA | 145 | 162 | 179 | 1.0 | 234 | 2.6 | 5.0 |
| P6SMB180 | P6SMB180C | 180 | 180C | 146 | 162 | 198 | 1.0 | 258 | 2.3 | 5.0 |
| P6SMB180A | P6SMB180CA | 180A | 180CA | 154 | 171 | 189 | 1.0 | 246 | 2.4 | 5.0 |
| P6SMB200 | P6SMB200C | 200 | 200C | 162 | 180 | 220 | 1.0 | 287 | 2.1 | 5.0 |
| P6SMB200A | P6SMB200CA | 200A | 200CA | 171 | 190 | 210 | 1.0 | 274 | 2.2 | 5.0 |
| P6SMB220 | P6SMB220C | 220 | 220C | 175 | 198 | 242 | 1.0 | 344 | 1.7 | 5.0 |
| P6SMB220A | P6SMB220CA | 220A | 220CA | 185 | 209 | 231 | 1.0 | 328 | 1.8 | 5.0 |
| P6SMB250 | P6SMB250C | 250 | 250C | 202 | 225 | 275 | 1.0 | 360 | 1.7 | 5.0 |
| P6SMB250A | P6SMB250CA | 250A | 250CA | 214 | 237 | 263 | 1.0 | 344 | 1.7 | 5.0 |
| P6SMB300 | P6SMB300C | 300 | 300C | 243 | 270 | 330 | 1.0 | 430 | 1.4 | 5.0 |
| P6SMB300A | P6SMB300CA | 300A | 300CA | 256 | 285 | 315 | 1.0 | 414 | 1.4 | 5.0 |
| P6SMB350 | P6SMB350C | 350 | 350C | 284 | 315 | 385 | 1.0 | 504 | 1.2 | 5.0 |
| P6SMB350A | P6SMB350CA | 350A | 350CA | 300 | 333 | 368 | 1.0 | 482 | 1.2 | 5.0 |
| P6SMB400 | P6SMB400C | 400 | 400C | 324 | 360 | 440 | 1.0 | 574 | 1.0 | 5.0 |
| P6SMB400A | P6SMB400CA | 400A | 400CA | 342 | 380 | 420 | 1.0 | 548 | 1.1 | 5.0 |
| P6SMB440 | P6SMB440C | 440 | 440C | 356 | 396 | 484 | 1.0 | 631 | 0.95 | 5.0 |
| P6SMB440A | P6SMB440CA | 440A | 440CA | 376 | 418 | 462 | 1.0 | 602 | 1.0 | 5.0 |

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