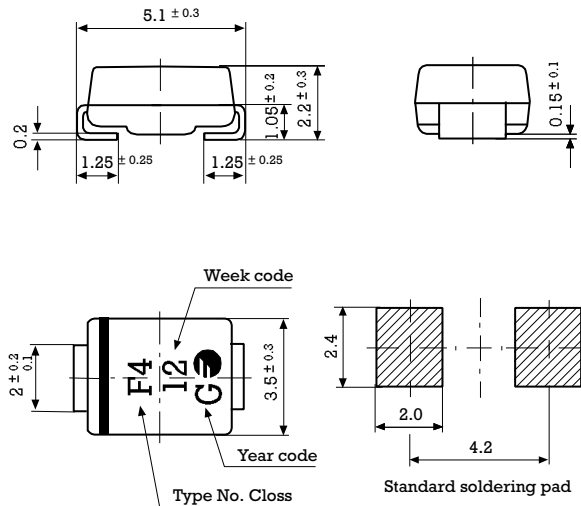


**600 W Unidirectional and Bidirectional Surface Mounted Transient Voltage Suppressor Diodes**

|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Dimensions in mm.</p> <p>CASE:<br/>SMB/DO-214AA</p>  | <p>Voltage<br/>6.8 to 250 V</p> <p>Power<br/>600 W/ms</p> <p><b>HYPERRECTIFIER</b>®</p> <ul style="list-style-type: none"><li>• Glass passivated junction</li><li>• Typical <math>I_{RM}</math> less than <math>1\mu A</math> above 10V</li><li>• Response time typically <math>&lt; 1ns</math></li><li>• The plastic material carries UL 94 V-0</li><li>• Low profile package</li><li>• Easy pick and place</li><li>• High temperature soldering 260 °C 10 sec</li></ul> <p><b>MECHANICAL DATA</b></p> <p>Terminals: Solder plated, solderable per IEC 68-2-20.<br/>Standard Packaging: 8 mm. tape (EIA-RS-481).<br/>Weight: 0.093 g.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Maximum Ratings and Electrical Characteristics at 25 °C**

|                 |                                                                     |                  |
|-----------------|---------------------------------------------------------------------|------------------|
| $P_{PPM}$       | Peak Pulse Power Dissipation with 10/1000 $\mu s$ exponential pulse | 600 W            |
| $I_{FSM}$       | Peak Forward Surge Current 8.3 ms. (Jedec Method) (Note 1)          | 100 A            |
| $V_F$           | Max. forward voltage drop at $I_F = 100 A$ (Note 1)                 | 3.5 V            |
| $T_J - T_{STG}$ | Operating Junction and Storage Temperature Range                    | - 65 to + 175 °C |

Note 1: Only for Unidirectional

| Type           |              | Maximum Reverse Leakage Current<br>$I_{RM}$ at $V_{RM}$ |      | (1) Breakdown Voltage<br>$V_{BR}$ at $I_R$<br>(V) |      |      |      | Max. Clamping Voltage<br>$V_{CL}$ at $I_{PP}$<br>max. 1ms. Expo. |      |
|----------------|--------------|---------------------------------------------------------|------|---------------------------------------------------|------|------|------|------------------------------------------------------------------|------|
| Unidirectional | Marking Code | ( $\mu A$ )                                             | (V)  | Min.                                              | Nom. | Max. | (mA) | (V)                                                              | (A)  |
| P6SMB6V8       | KD           | 1000                                                    | 5.50 | 6.12                                              | 6.8  | 7.48 | 10   | 10.8                                                             | 56   |
| P6SMB6V8A      | KE           | 1000                                                    | 5.80 | 6.45                                              | 6.8  | 7.14 | 10   | 10.5                                                             | 57   |
| P6SMB7V5       | KF           | 500                                                     | 6.05 | 6.75                                              | 7.5  | 8.25 | 10   | 11.7                                                             | 51   |
| P6SMB7V5A      | KG           | 500                                                     | 6.40 | 7.13                                              | 7.5  | 7.88 | 10   | 11.3                                                             | 53   |
| P6SMB8V2       | KH           | 200                                                     | 6.63 | 7.38                                              | 8.2  | 9.02 | 10   | 12.5                                                             | 48   |
| P6SMB8V2A      | KK           | 200                                                     | 7.02 | 7.79                                              | 8.2  | 8.61 | 10   | 12.1                                                             | 50   |
| P6SMB9V1       | KL           | 50                                                      | 7.37 | 8.19                                              | 9.1  | 10.0 | 1    | 13.8                                                             | 44   |
| P6SMB9V1A      | KM           | 50                                                      | 7.78 | 8.65                                              | 9.1  | 9.55 | 1    | 13.4                                                             | 45   |
| P6SMB10        | KN           | 10                                                      | 8.10 | 9.00                                              | 10   | 11.0 | 1    | 15.0                                                             | 40   |
| P6SMB10A       | KP           | 10                                                      | 8.55 | 9.50                                              | 10   | 10.5 | 1    | 14.5                                                             | 41   |
| P6SMB11        | KQ           | 5                                                       | 8.92 | 9.90                                              | 11   | 12.1 | 1    | 16.2                                                             | 37   |
| P6SMB11A       | KR           | 5                                                       | 9.40 | 10.5                                              | 11   | 11.6 | 1    | 15.6                                                             | 38   |
| P6SMB12        | KS           | 5                                                       | 9.72 | 10.8                                              | 12   | 13.2 | 1    | 17.3                                                             | 35   |
| P6SMB12A       | KT           | 5                                                       | 10.2 | 11.4                                              | 12   | 12.6 | 1    | 16.7                                                             | 36   |
| P6SMB13        | KU           | 5                                                       | 10.5 | 11.7                                              | 13   | 14.3 | 1    | 19.0                                                             | 32   |
| P6SMB13A       | KV           | 5                                                       | 11.1 | 12.4                                              | 13   | 13.7 | 1    | 18.2                                                             | 33   |
| P6SMB15        | KW           | 5                                                       | 12.1 | 13.5                                              | 15   | 16.5 | 1    | 22.0                                                             | 27   |
| P6SMB15A       | KX           | 5                                                       | 12.8 | 14.3                                              | 15   | 15.8 | 1    | 21.2                                                             | 28   |
| P6SMB16        | KY           | 5                                                       | 12.9 | 14.4                                              | 16   | 17.6 | 1    | 23.5                                                             | 26   |
| P6SMB16A       | KZ           | 5                                                       | 13.6 | 15.2                                              | 16   | 16.8 | 1    | 22.5                                                             | 27   |
| P6SMB18        | LD           | 5                                                       | 14.5 | 16.2                                              | 18   | 19.8 | 1    | 26.5                                                             | 23   |
| P6SMB18A       | LE           | 5                                                       | 15.3 | 17.1                                              | 18   | 18.9 | 1    | 25.5                                                             | 24   |
| P6SMB20        | LF           | 5                                                       | 16.2 | 18.0                                              | 20   | 22.0 | 1    | 29.1                                                             | 21   |
| P6SMB20A       | LG           | 5                                                       | 17.1 | 19.0                                              | 20   | 21.0 | 1    | 27.7                                                             | 22   |
| P6SMB22        | LH           | 5                                                       | 17.8 | 19.8                                              | 22   | 24.2 | 1    | 31.9                                                             | 19   |
| P6SMB22A       | LK           | 5                                                       | 18.8 | 20.9                                              | 22   | 23.1 | 1    | 30.6                                                             | 20   |
| P6SMB24        | LL           | 5                                                       | 19.4 | 21.6                                              | 24   | 26.4 | 1    | 34.7                                                             | 17   |
| P6SMB24A       | LM           | 5                                                       | 20.5 | 22.8                                              | 24   | 25.2 | 1    | 33.2                                                             | 18   |
| P6SMB27        | LN           | 5                                                       | 21.8 | 24.3                                              | 27   | 29.7 | 1    | 39.1                                                             | 15   |
| P6SMB27A       | LP           | 5                                                       | 23.1 | 25.7                                              | 27   | 28.4 | 1    | 37.5                                                             | 16   |
| P6SMB30        | LQ           | 5                                                       | 24.3 | 27.0                                              | 30   | 33.0 | 1    | 43.5                                                             | 14   |
| P6SMB30A       | LR           | 5                                                       | 25.6 | 28.5                                              | 30   | 31.5 | 1    | 41.4                                                             | 14.4 |
| P6SMB33        | LS           | 5                                                       | 26.8 | 29.7                                              | 33   | 36.3 | 1    | 47.7                                                             | 12.6 |
| P6SMB33A       | LT           | 5                                                       | 28.2 | 31.4                                              | 33   | 34.7 | 1    | 45.7                                                             | 13.2 |
| P6SMB36        | LU           | 5                                                       | 29.1 | 32.4                                              | 36   | 39.6 | 1    | 52.0                                                             | 11.6 |
| P6SMB36A       | LV           | 5                                                       | 30.8 | 34.2                                              | 36   | 37.8 | 1    | 49.9                                                             | 12   |
| P6SMB39        | LW           | 5                                                       | 31.6 | 35.1                                              | 39   | 42.9 | 1    | 56.4                                                             | 10.6 |
| P6SMB39A       | LX           | 5                                                       | 33.3 | 37.1                                              | 39   | 41.0 | 1    | 53.9                                                             | 11.2 |

(1) Tested with pulses.  
Pulse test:  $t_p \leq 50$  ms;  $\delta < 2\%$

| Type           |              | Maximum Reverse Leakage Current<br>$I_{RM}$ at $V_{RM}$ |      | (1) Breakdown Voltage<br>$V_{BR}$ at $I_R$<br>(V) |      |      |      | Max. Clamping Voltage<br>$V_{CL}$ at $I_{PP}$<br>max. lms. Expo. |      |
|----------------|--------------|---------------------------------------------------------|------|---------------------------------------------------|------|------|------|------------------------------------------------------------------|------|
| Unidirectional | Marking Code | ( $\mu A$ )                                             | (V)  | Min.                                              | Nom. | Max. | (mA) | (V)                                                              | (A)  |
| P6SMB43        | LY           | 5                                                       | 34.8 | 38.7                                              | 43   | 47.3 | 1    | 61.9                                                             | 9.6  |
| P6SMB43A       | LZ           | 5                                                       | 36.8 | 40.9                                              | 43   | 45.2 | 1    | 59.3                                                             | 10.1 |
| P6SMB47        | MD           | 5                                                       | 38.1 | 42.3                                              | 47   | 51.7 | 1    | 67.8                                                             | 8.9  |
| P6SMB47A       | ME           | 5                                                       | 40.2 | 44.7                                              | 47   | 49.4 | 1    | 64.8                                                             | 9.3  |
| P6SMB51        | MF           | 5                                                       | 41.3 | 45.9                                              | 51   | 56.1 | 1    | 73.5                                                             | 8.2  |
| P6SMB51A       | MG           | 5                                                       | 43.6 | 48.5                                              | 51   | 53.6 | 1    | 70.1                                                             | 8.6  |
| P6SMB56        | MH           | 5                                                       | 45.4 | 50.4                                              | 56   | 61.6 | 1    | 80.5                                                             | 7.4  |
| P6SMB56A       | MK           | 5                                                       | 47.8 | 53.2                                              | 56   | 58.8 | 1    | 77.0                                                             | 7.8  |
| P6SMB62        | ML           | 5                                                       | 50.2 | 55.8                                              | 62   | 68.2 | 1    | 89.0                                                             | 6.8  |
| P6SMB62A       | MM           | 5                                                       | 53.0 | 58.9                                              | 62   | 65.1 | 1    | 85.0                                                             | 7.1  |
| P6SMB68        | MN           | 5                                                       | 55.1 | 61.2                                              | 68   | 74.8 | 1    | 98.0                                                             | 6.1  |
| P6SMB68A       | MP           | 5                                                       | 58.1 | 64.6                                              | 68   | 71.4 | 1    | 92.0                                                             | 6.5  |
| P6SMB75        | MQ           | 5                                                       | 60.7 | 67.5                                              | 75   | 82.5 | 1    | 108                                                              | 5.5  |
| P6SMB75A       | MR           | 5                                                       | 64.1 | 71.3                                              | 75   | 78.8 | 1    | 103                                                              | 5.8  |
| P6SMB82        | MS           | 5                                                       | 66.4 | 73.8                                              | 82   | 90.2 | 1    | 118                                                              | 5.1  |
| P6SMB82A       | MT           | 5                                                       | 70.1 | 77.9                                              | 82   | 86.1 | 1    | 113                                                              | 5.3  |
| P6SMB91        | MU           | 5                                                       | 73.7 | 81.9                                              | 91   | 100  | 1    | 131                                                              | 4.5  |
| P6SMB91A       | MV           | 5                                                       | 77.8 | 86.5                                              | 91   | 95.5 | 1    | 125                                                              | 4.8  |
| P6SMB100       | MW           | 5                                                       | 81.0 | 90.0                                              | 100  | 110  | 1    | 144                                                              | 4.2  |
| P6SMB100A      | MX           | 5                                                       | 85.5 | 95.0                                              | 100  | 105  | 1    | 137                                                              | 4.4  |
| P6SMB110       | MY           | 5                                                       | 89.2 | 99.0                                              | 110  | 121  | 1    | 158                                                              | 3.8  |
| P6SMB110A      | MZ           | 5                                                       | 94.0 | 105                                               | 110  | 116  | 1    | 152                                                              | 4.0  |
| P6SMB120       | ND           | 5                                                       | 97.2 | 108                                               | 120  | 132  | 1    | 173                                                              | 3.5  |
| P6SMB120A      | NE           | 5                                                       | 102  | 114                                               | 120  | 126  | 1    | 165                                                              | 3.6  |
| P6SMB130       | NF           | 5                                                       | 105  | 117                                               | 130  | 143  | 1    | 187                                                              | 3.2  |
| P6SMB130A      | NG           | 5                                                       | 111  | 124                                               | 130  | 137  | 1    | 179                                                              | 3.3  |
| P6SMB150       | NH           | 5                                                       | 121  | 135                                               | 150  | 165  | 1    | 215                                                              | 2.8  |
| P6SMB150A      | NK           | 5                                                       | 128  | 143                                               | 150  | 158  | 1    | 207                                                              | 2.9  |
| P6SMB160       | NL           | 5                                                       | 130  | 144                                               | 160  | 176  | 1    | 230                                                              | 2.6  |
| P6SMB160A      | NM           | 5                                                       | 136  | 152                                               | 160  | 168  | 1    | 219                                                              | 2.7  |
| P6SMB170       | NN           | 5                                                       | 138  | 153                                               | 170  | 187  | 1    | 244                                                              | 2.5  |
| P6SMB170A      | NP           | 5                                                       | 145  | 162                                               | 170  | 179  | 1    | 234                                                              | 2.6  |
| P6SMB180       | NQ           | 5                                                       | 146  | 162                                               | 180  | 198  | 1    | 258                                                              | 2.3  |
| P6SMB180A      | NR           | 5                                                       | 154  | 171                                               | 180  | 189  | 1    | 246                                                              | 2.4  |
| P6SMB200       | NS           | 5                                                       | 162  | 180                                               | 200  | 220  | 1    | 287                                                              | 2.1  |
| P6SMB200A      | NT           | 5                                                       | 171  | 190                                               | 200  | 210  | 1    | 274                                                              | 2.2  |
| P6SMB220       | NU           | 5                                                       | 175  | 198                                               | 220  | 242  | 1    | 344                                                              | 1.75 |
| P6SMB220A      | NV           | 5                                                       | 185  | 209                                               | 220  | 231  | 1    | 328                                                              | 1.83 |
| P6SMB250       | NW           | 5                                                       | 202  | 225                                               | 250  | 275  | 1    | 360                                                              | 1.67 |
| P6SMB250A      | NX           | 5                                                       | 214  | 237                                               | 250  | 263  | 1    | 344                                                              | 1.75 |

(1) Tested with pulses.  
Pulse test:  $t_p \leq 50$  ms;  $\delta < 2\%$

| Type          |              | Maximum Reverse Leakage Current |             | (1) Breakdown Voltage |          |          |             | Max. Clamping Voltage |      |
|---------------|--------------|---------------------------------|-------------|-----------------------|----------|----------|-------------|-----------------------|------|
|               |              | $I_{RM}$                        | at $V_{RM}$ | $V_{BR}$              | at $I_R$ | $V_{CL}$ | at $I_{PP}$ | max. 1ms. Expo.       |      |
| Bidirectional | Marking Code | ( $\mu A$ )                     | (V)         | Min.                  | Nom.     | Max.     | (mA)        | (V)                   | (A)  |
| P6SMB6V8C     | PD           | 1000                            | 5.50        | 6.12                  | 6.8      | 7.48     | 10          | 10.8                  | 56   |
| P6SMB6V8CA    | PE           | 1000                            | 5.80        | 6.45                  | 6.8      | 7.14     | 10          | 10.5                  | 57   |
| P6SMB7V5C     | PF           | 500                             | 6.05        | 6.75                  | 7.5      | 8.25     | 10          | 11.7                  | 51   |
| P6SMB7V5CA    | PG           | 500                             | 6.40        | 7.13                  | 7.5      | 7.88     | 10          | 11.3                  | 53   |
| P6SMB8V2C     | PH           | 200                             | 6.63        | 7.38                  | 8.2      | 9.02     | 10          | 12.5                  | 48   |
| P6SMB8V2CA    | PK           | 200                             | 7.02        | 7.79                  | 8.2      | 8.61     | 10          | 12.1                  | 50   |
| P6SMB9V1C     | PL           | 50                              | 7.37        | 8.19                  | 9.1      | 10.0     | 1           | 13.8                  | 44   |
| P6SMB9V1CA    | PM           | 50                              | 7.78        | 8.65                  | 9.1      | 9.55     | 1           | 13.4                  | 45   |
| P6SMB10C      | PN           | 10                              | 8.10        | 9.00                  | 10       | 11.0     | 1           | 15.0                  | 40   |
| P6SMB10CA     | PP           | 10                              | 8.55        | 9.50                  | 10       | 10.5     | 1           | 14.5                  | 41   |
| P6SMB11C      | PQ           | 5                               | 8.92        | 9.90                  | 11       | 12.1     | 1           | 16.2                  | 37   |
| P6SMB11CA     | PR           | 5                               | 9.40        | 10.5                  | 11       | 11.6     | 1           | 15.6                  | 38   |
| P6SMB12C      | PS           | 5                               | 9.72        | 10.8                  | 12       | 13.2     | 1           | 17.3                  | 35   |
| P6SMB12CA     | PT           | 5                               | 10.2        | 11.4                  | 12       | 12.6     | 1           | 16.7                  | 36   |
| P6SMB13C      | PU           | 5                               | 10.5        | 11.7                  | 13       | 14.3     | 1           | 19.0                  | 32   |
| P6SMB13CA     | PV           | 5                               | 11.1        | 12.4                  | 13       | 13.7     | 1           | 18.2                  | 33   |
| P6SMB15C      | PW           | 5                               | 12.1        | 13.5                  | 15       | 16.5     | 1           | 22.0                  | 27   |
| P6SMB15CA     | PX           | 5                               | 12.8        | 14.3                  | 15       | 15.8     | 1           | 21.2                  | 28   |
| P6SMB16C      | PY           | 5                               | 12.9        | 14.4                  | 16       | 17.6     | 1           | 23.5                  | 26   |
| P6SMB16CA     | PZ           | 5                               | 13.6        | 15.2                  | 16       | 16.8     | 1           | 22.5                  | 27   |
| P6SMB18C      | QD           | 5                               | 14.5        | 16.2                  | 18       | 19.8     | 1           | 26.5                  | 23   |
| P6SMB18CA     | QE           | 5                               | 15.3        | 17.1                  | 18       | 18.9     | 1           | 25.5                  | 24   |
| P6SMB20C      | QF           | 5                               | 16.2        | 18.0                  | 20       | 22.0     | 1           | 29.1                  | 21   |
| P6SMB20CA     | QG           | 5                               | 17.1        | 19.0                  | 20       | 21.0     | 1           | 27.7                  | 22   |
| P6SMB22C      | QH           | 5                               | 17.8        | 19.8                  | 22       | 24.2     | 1           | 31.9                  | 19   |
| P6SMB22CA     | QK           | 5                               | 18.8        | 20.9                  | 22       | 23.1     | 1           | 30.6                  | 20   |
| P6SMB24C      | QL           | 5                               | 19.4        | 21.6                  | 24       | 26.4     | 1           | 34.7                  | 17   |
| P6SMB24CA     | QM           | 5                               | 20.5        | 22.8                  | 24       | 25.2     | 1           | 33.2                  | 18   |
| P6SMB27C      | QN           | 5                               | 21.8        | 24.3                  | 27       | 29.7     | 1           | 39.1                  | 15   |
| P6SMB27CA     | QP           | 5                               | 23.1        | 25.7                  | 27       | 28.4     | 1           | 37.5                  | 16   |
| P6SMB30C      | QQ           | 5                               | 24.3        | 27.0                  | 30       | 33.0     | 1           | 43.5                  | 14   |
| P6SMB30CA     | QR           | 5                               | 25.6        | 28.5                  | 30       | 31.5     | 1           | 41.4                  | 14.4 |
| P6SMB33C      | QS           | 5                               | 26.8        | 29.7                  | 33       | 36.3     | 1           | 47.7                  | 12.6 |
| P6SMB33CA     | QT           | 5                               | 28.2        | 31.4                  | 33       | 34.7     | 1           | 45.7                  | 13.2 |
| P6SMB36C      | QU           | 5                               | 29.1        | 32.4                  | 36       | 39.6     | 1           | 52.0                  | 11.6 |
| P6SMB36CA     | QV           | 5                               | 30.8        | 34.2                  | 36       | 37.8     | 1           | 49.9                  | 12   |
| P6SMB39C      | QW           | 5                               | 31.6        | 35.1                  | 39       | 42.9     | 1           | 56.4                  | 10.6 |
| P6SMB39CA     | QX           | 5                               | 33.3        | 37.1                  | 39       | 41.0     | 1           | 53.9                  | 11.2 |

(1) Tested with pulses.  
Pulse test:  $t_p \leq 50$  ms;  $\delta < 2\%$

| Type          |              | Maximum Reverse Leakage Current<br>$I_{RM}$ at $V_{RM}$ |      | (1) Breakdown Voltage<br>$V_{BR}$ at $I_R$<br>(V) |      |      |      | Max. Clamping Voltage<br>$V_{CL}$ at $I_{PP}$<br>max. 1ms. Expo. |      |
|---------------|--------------|---------------------------------------------------------|------|---------------------------------------------------|------|------|------|------------------------------------------------------------------|------|
| Bidirectional | Marking Code | ( $\mu A$ )                                             | (V)  | Min.                                              | Nom. | Max. | (mA) | (V)                                                              | (A)  |
| P6SMB43C      | QY           | 5                                                       | 34.8 | 38.7                                              | 43   | 47.3 | 1    | 61.9                                                             | 9.6  |
| P6SMB43CA     | QZ           | 5                                                       | 36.8 | 40.9                                              | 43   | 45.2 | 1    | 59.3                                                             | 10.1 |
| P6SMB47C      | TD           | 5                                                       | 38.1 | 42.3                                              | 47   | 51.7 | 1    | 67.8                                                             | 8.9  |
| P6SMB47CA     | TE           | 5                                                       | 40.2 | 44.7                                              | 47   | 49.4 | 1    | 64.8                                                             | 9.3  |
| P6SMB51C      | TF           | 5                                                       | 41.3 | 45.9                                              | 51   | 56.1 | 1    | 73.5                                                             | 8.2  |
| P6SMB51CA     | TG           | 5                                                       | 43.6 | 48.5                                              | 51   | 53.6 | 1    | 70.1                                                             | 8.6  |
| P6SMB56C      | TH           | 5                                                       | 45.4 | 50.4                                              | 56   | 61.6 | 1    | 80.5                                                             | 7.4  |
| P6SMB56CA     | TK           | 5                                                       | 47.8 | 53.2                                              | 56   | 58.8 | 1    | 77.0                                                             | 7.8  |
| P6SMB62C      | TL           | 5                                                       | 50.2 | 55.8                                              | 62   | 68.2 | 1    | 89.0                                                             | 6.8  |
| P6SMB62CA     | TM           | 5                                                       | 53.0 | 58.9                                              | 62   | 65.1 | 1    | 85.0                                                             | 7.1  |
| P6SMB68C      | TN           | 5                                                       | 55.1 | 61.2                                              | 68   | 74.8 | 1    | 98.0                                                             | 6.1  |
| P6SMB68CA     | TP           | 5                                                       | 58.1 | 64.6                                              | 68   | 71.4 | 1    | 92.0                                                             | 6.5  |
| P6SMB75C      | TQ           | 5                                                       | 60.7 | 67.5                                              | 75   | 82.5 | 1    | 108                                                              | 5.5  |
| P6SMB75CA     | TR           | 5                                                       | 64.1 | 71.3                                              | 75   | 78.8 | 1    | 103                                                              | 5.8  |
| P6SMB82C      | TS           | 5                                                       | 66.4 | 73.8                                              | 82   | 90.2 | 1    | 118                                                              | 5.1  |
| P6SMB82CA     | TT           | 5                                                       | 70.1 | 77.9                                              | 82   | 86.1 | 1    | 113                                                              | 5.3  |
| P6SMB91C      | TU           | 5                                                       | 73.7 | 81.9                                              | 91   | 100  | 1    | 131                                                              | 4.5  |
| P6SMB91CA     | TV           | 5                                                       | 77.8 | 86.5                                              | 91   | 95.5 | 1    | 125                                                              | 4.8  |
| P6SMB100C     | TW           | 5                                                       | 81.0 | 90.0                                              | 100  | 110  | 1    | 144                                                              | 4.2  |
| P6SMB100CA    | TX           | 5                                                       | 85.5 | 95.0                                              | 100  | 105  | 1    | 137                                                              | 4.4  |
| P6SMB110C     | TY           | 5                                                       | 89.2 | 99.0                                              | 110  | 121  | 1    | 158                                                              | 3.8  |
| P6SMB110CA    | TZ           | 5                                                       | 94.0 | 105                                               | 110  | 116  | 1    | 152                                                              | 4.0  |
| P6SMB120C     | VD           | 5                                                       | 97.2 | 108                                               | 120  | 132  | 1    | 173                                                              | 3.5  |
| P6SMB120CA    | VE           | 5                                                       | 102  | 114                                               | 120  | 126  | 1    | 165                                                              | 3.6  |
| P6SMB130C     | VF           | 5                                                       | 105  | 117                                               | 130  | 143  | 1    | 187                                                              | 3.2  |
| P6SMB130CA    | VG           | 5                                                       | 111  | 124                                               | 130  | 137  | 1    | 179                                                              | 3.3  |
| P6SMB150C     | VH           | 5                                                       | 121  | 135                                               | 150  | 165  | 1    | 215                                                              | 2.8  |
| P6SMB150CA    | VK           | 5                                                       | 128  | 143                                               | 150  | 158  | 1    | 207                                                              | 2.9  |
| P6SMB160C     | VL           | 5                                                       | 130  | 144                                               | 160  | 176  | 1    | 230                                                              | 2.6  |
| P6SMB160CA    | VM           | 5                                                       | 136  | 152                                               | 160  | 168  | 1    | 219                                                              | 2.7  |
| P6SMB170C     | VN           | 5                                                       | 138  | 153                                               | 170  | 187  | 1    | 244                                                              | 2.5  |
| P6SMB170CA    | VP           | 5                                                       | 145  | 162                                               | 170  | 179  | 1    | 234                                                              | 2.6  |
| P6SMB180C     | VQ           | 5                                                       | 146  | 162                                               | 180  | 198  | 1    | 258                                                              | 2.3  |
| P6SMB180CA    | VR           | 5                                                       | 154  | 171                                               | 180  | 189  | 1    | 246                                                              | 2.4  |
| P6SMB200C     | VS           | 5                                                       | 162  | 180                                               | 200  | 220  | 1    | 287                                                              | 2.1  |
| P6SMB200CA    | VT           | 5                                                       | 171  | 190                                               | 200  | 210  | 1    | 274                                                              | 2.2  |
| P6SMB220C     | VU           | 5                                                       | 175  | 198                                               | 220  | 242  | 1    | 344                                                              | 1.75 |
| P6SMB220CA    | VV           | 5                                                       | 185  | 209                                               | 220  | 231  | 1    | 328                                                              | 1.83 |
| P6SMB250C     | VW           | 5                                                       | 202  | 225                                               | 250  | 275  | 1    | 360                                                              | 1.67 |
| P6SMB250CA    | VX           | 5                                                       | 214  | 237                                               | 250  | 263  | 1    | 344                                                              | 1.75 |

(1) Tested with pulses.  
Pulse test:  $t_p \leq 50 \text{ ms}$ ;  $\delta < 2\%$

## Rating And Characteristic Curves

