

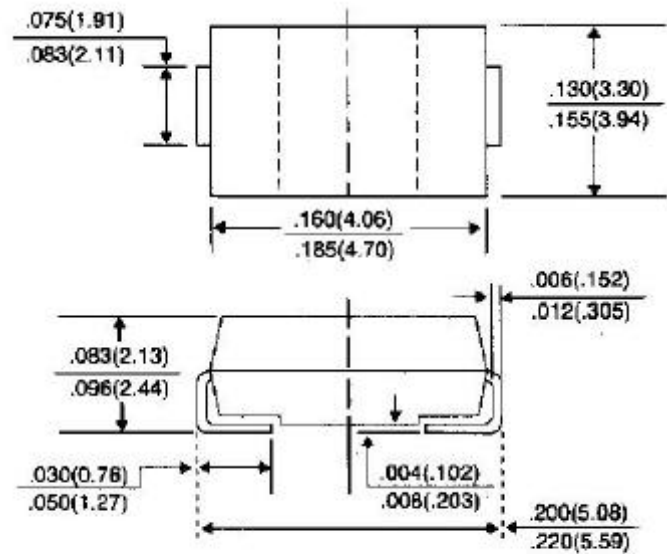
# P6SMBJ SERIES

## SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR VOLTAGE - 5.0 TO 170 Volts      Peak Power Pulse - 600Watt

### FEATURES

- For surface mounted applications in order to optimize board space
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Excellent clamping capability
- Repetition Rate(duty cycle):0.01%
- Fast response time: typically less than 1.0 ps from 0 volts to BV for unidirectional types
- Typical  $I_D$  less than 1 A above 10V
- High temperature soldering : 260 °C/10 seconds at terminals
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O

### SMB/DO-214AA



Dimensions in inches and (millimeters)

### MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic  
over passivated junction

Terminals: Solder plated, solderable per  
MIL-STD-750, Method 2026

Polarity: Color band denotes positive end(cathode)  
except Bidirectional

Standard packaging:12 mm tape per(EIA 481)

Weight: 0.003 ounce, 0.093 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

|  | SYMBOL         | VALUE       | UNITS |
|--|----------------|-------------|-------|
| Peak Pulse Power Dissipation on 10/1000 $\mu$ s waveform (Note 1,2, Fig 1)                                 | $P_{PPM}$      | Minimum 600 | Watts |
| Peak Pulse Current on 10/1000 $\mu$ s waveform (Note 1, Fig 3)   | $I_{PPM}$      | See Table 1 | Amps  |
| Peak forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method) (Note 2,3) | $I_{FSM}$      | 100.0       | Amps  |
| Operating Junction and Storage Temperature Range   | $T_J, T_{STG}$ | -55 to +150 |       |

### NOTES:

1.Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25^\circ\text{C}$  per Fig. 2.

2.Mounted on  $5.0\text{mm}^2$  (.013mm thick) land areas.

3.Measured on 8 .3ms, single half sine-wave or equivalent square wave, duty cycle= 4 pulses per minutes maximum.

### MAXIMUM RATINGS AND CHARACTERISTIC CURVES P6SMBJ SERIES

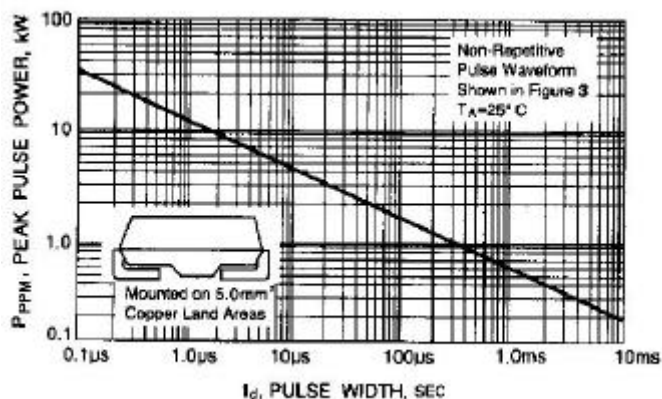


Fig. 1-PEAK PULSE POWER RATING VERSUS

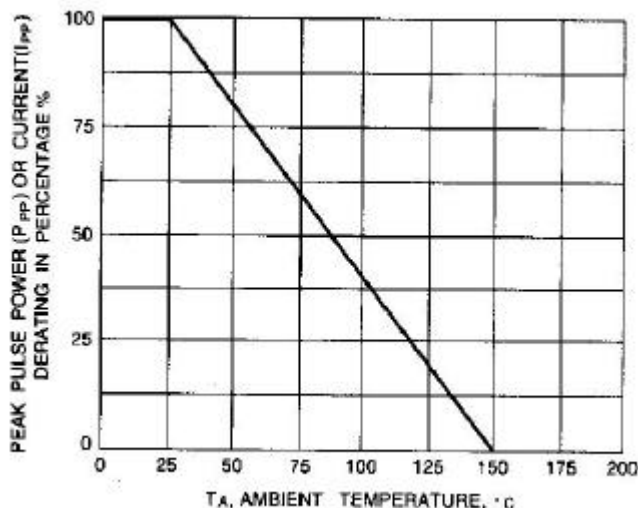


Fig. 2-PULSE RATING CURVE

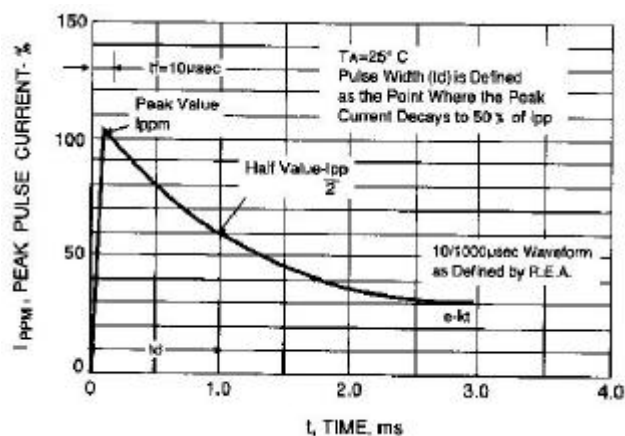


Fig. 3-PULSE WAVEFORM  
CAPACITANCE

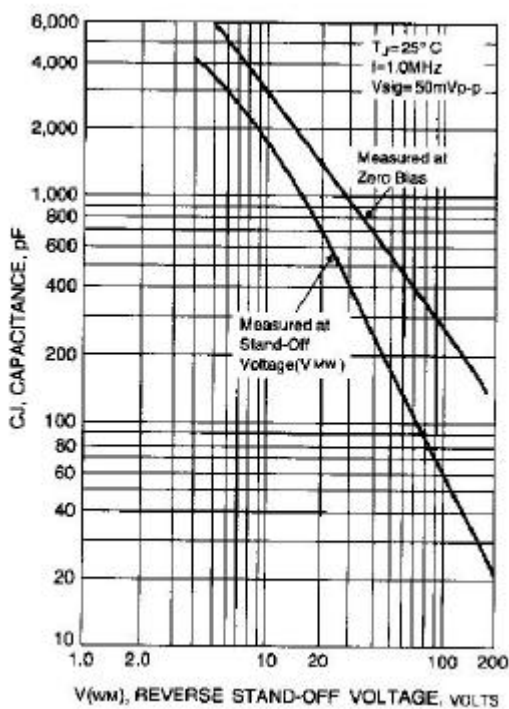


Fig. 4-TYPICAL JUNCTION

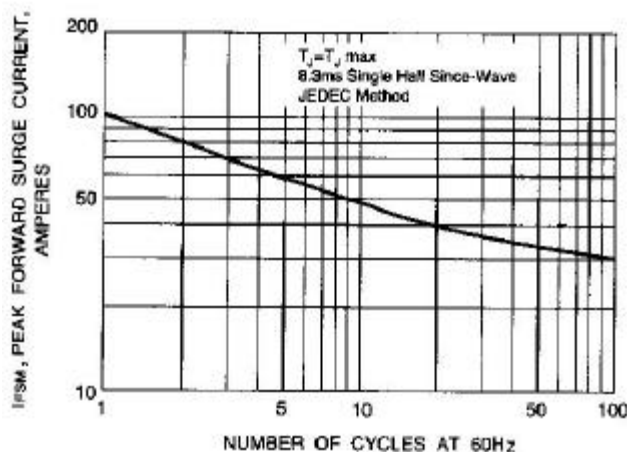


Fig. 5- MAXIMUM NON-REPETITIVE PEAK  
FORWARD SURGE CURRENT

**UNI-DIRECTIONAL 600 Watt Surface Mount TVS**

| UNI-DIRECTIONAL<br>PART<br>NUMBER | DEVICE<br>MARKING<br>CODE | REVERSE<br>STAND-OFF<br>VOLTAGE<br>VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MAX. @IT | TEST<br>CURRENT<br>IT<br>(mA) | MAXIMUM<br>CLAMPING<br>VOLTAGE<br>@I <sub>pp</sub> VC (V) | PEAK<br>PULSE<br>CURRENT<br>I <sub>pp</sub> (A) | REVERSE<br>LEAKAGE<br>@VRWM<br>IR (uA) |
|-----------------------------------|---------------------------|---|---|---|-------------------------------|---|---|--|
| P6SMBJ5.0                         | KD                        | 5.0   | 6.40  | 7.55  | 10                            | 9.6   | 62.5  | 800                                    |
| P6SMBJ5.0A                        | KE                        | 5.0   | 6.40  | 7.25  | 10                            | 9.2   | 65.2  | 800                                    |
| P6SMBJ6.0                         | KF                        | 6.0   | 6.67  | 8.45  | 10                            | 11.4  | 52.6  | 800                                    |
| P6SMBJ6.0A                        | KG                        | 6.0   | 6.67  | 7.67  | 10                            | 10.3  | 58.3  | 800                                    |
| P6SMBJ6.5                         | KH                        | 6.5   | 7.22  | 9.14  | 10                            | 12.3  | 48.7  | 500                                    |
| P6SMBJ6.5A                        | KK                        | 6.5   | 7.22  | 8.30  | 10                            | 11.2  | 53.6  | 500                                    |
| P6SMBJ7.0                         | KL                        | 7.0   | 7.78  | 9.86  | 10                            | 13.3  | 45.1  | 200                                    |
| P6SMBJ7.0A                        | KM                        | 7.0   | 7.78  | 8.95  | 10                            | 12.0  | 50.0  | 200                                    |
| P6SMBJ7.5                         | KN                        | 7.5   | 8.33  | 10.67                                       | 1                             | 14.3  | 42.0  | 100                                    |
| P6SMBJ7.5A                        | KP                        | 7.5   | 8.33  | 9.58  | 1                             | 12.9  | 46.5  | 100                                    |
| P6SMBJ8.0                         | KQ                        | 8.0   | 8.89  | 11.30                                       | 1                             | 15.0  | 40.0  | 50                                     |
| P6SMBJ8.0A                        | KR                        | 8.0   | 8.89  | 10.23                                       | 1                             | 13.6  | 44.1  | 50                                     |
| P6SMBJ8.5                         | KS                        | 8.5   | 9.44  | 11.92                                       | 1                             | 15.9  | 37.7  | 10                                     |
| P6SMBJ8.5A                        | KT                        | 8.5   | 9.44  | 10.82                                       | 1                             | 14.4  | 41.7  | 10                                     |
| P6SMBJ9.0                         | KU                        | 9.0   | 10.00                                       | 12.60                                       | 1                             | 16.9  | 35.5  | 5                                      |
| P6SMBJ9.0A                        | KV                        | 9.0   | 10.00                                       | 11.50                                       | 1                             | 15.4  | 39.0  | 5                                      |
| P6SMBJ10                          | KW                        | 10.0  | 11.10                                       | 14.10                                       | 1                             | 18.8  | 31.9  | 5                                      |
| P6SMBJ10A                         | KX                        | 10.0  | 11.10                                       | 12.80                                       | 1                             | 17.0  | 35.3  | 5                                      |
| P6SMBJ11                          | KY                        | 11.0  | 12.20                                       | 15.40                                       | 1                             | 20.1  | 29.9  | 5                                      |
| P6SMBJ11A                         | KZ                        | 11.0  | 12.20                                       | 14.00                                       | 1                             | 18.2  | 33.0  | 5                                      |
| P6SMBJ12                          | LD                        | 12.0  | 13.30                                       | 16.90                                       | 1                             | 22.0  | 27.3  | 5                                      |
| P6SMBJ12A                         | LE                        | 12.0  | 13.30                                       | 15.30                                       | 1                             | 19.9  | 30.2  | 5                                      |
| P6SMBJ13                          | LF                        | 13.0  | 14.40                                       | 18.20                                       | 1                             | 23.8  | 25.2  | 5                                      |
| P6SMBJ13A                         | LG                        | 13.0  | 14.40                                       | 16.50                                       | 1                             | 21.5  | 27.9  | 5                                      |
| P6SMBJ14                          | LH                        | 14.0  | 15.60                                       | 19.80                                       | 1                             | 25.8  | 23.3  | 5                                      |
| P6SMBJ14A                         | LK                        | 14.0  | 15.60                                       | 17.90                                       | 1                             | 23.2  | 25.8  | 5                                      |
| P6SMBJ15                          | LL                        | 15.0  | 16.70                                       | 21.10                                       | 1                             | 26.9  | 22.3  | 5                                      |
| P6SMBJ15A                         | LM                        | 15.0  | 16.70                                       | 19.20                                       | 1                             | 24.4  | 24.0  | 5                                      |
| P6SMBJ16                          | LN                        | 16.0  | 17.80                                       | 22.60                                       | 1                             | 28.8  | 20.8  | 5                                      |
| P6SMBJ16A                         | LP                        | 16.0  | 17.80                                       | 20.50                                       | 1                             | 26.0  | 23.1  | 5                                      |
| P6SMBJ17                          | LQ                        | 17.0  | 18.90                                       | 23.90                                       | 1                             | 30.5  | 19.7  | 5                                      |
| P6SMBJ17A                         | LR                        | 17.0  | 18.90                                       | 21.70                                       | 1                             | 27.6  | 21.7  | 5                                      |
| P6SMBJ18                          | LS                        | 18.0  | 20.00                                       | 25.30                                       | 1                             | 32.2  | 18.6  | 5                                      |
| P6SMBJ18A                         | LT                        | 18.0  | 20.00                                       | 23.30                                       | 1                             | 29.2  | 20.5  | 5                                      |
| P6SMBJ20                          | LU                        | 20.0  | 22.20                                       | 28.10                                       | 1                             | 35.8  | 16.7  | 5                                      |
| P6SMBJ20A                         | LV                        | 20.0  | 22.20                                       | 25.50                                       | 1                             | 32.4  | 18.5  | 5                                      |
| P6SMBJ22                          | LW                        | 22.0  | 24.40                                       | 30.90                                       | 1                             | 39.4  | 15.2  | 5                                      |
| P6SMBJ22A                         | LX                        | 22.0  | 24.40                                       | 28.00                                       | 1                             | 35.5  | 16.9  | 5                                      |
| P6SMBJ24                          | LY                        | 24.0  | 26.70                                       | 33.80                                       | 1                             | 43.0  | 14.0  | 5                                      |
| P6SMBJ24A                         | LZ                        | 24.0  | 26.70                                       | 30.70                                       | 1                             | 38.9  | 15.4  | 5                                      |
| P6SMBJ26                          | MD                        | 26.0  | 28.90                                       | 36.60                                       | 1                             | 46.6  | 12.4  | 5                                      |
| P6SMBJ26A                         | ME                        | 26.0  | 28.90                                       | 33.20                                       | 1                             | 42.1  | 14.2  | 5                                      |
| P6SMBJ28                          | MF                        | 28.0  | 31.10                                       | 39.40                                       | 1                             | 50.0  | 12.0  | 5                                      |
| P6SMBJ28A                         | MG                        | 28.0  | 31.10                                       | 35.80                                       | 1                             | 45.4  | 13.2  | 5                                      |
| P6SMBJ30                          | MH                        | 30.0  | 33.30                                       | 42.20                                       | 1                             | 53.5  | 11.2  | 5                                      |
| P6SMBJ30A                         | MK                        | 30.0  | 33.30                                       | 38.30                                       | 1                             | 48.4  | 12.4  | 5                                      |
| P6SMBJ33                          | ML                        | 33.0  | 36.70                                       | 46.50                                       | 1                             | 59.0  | 10.2  | 5                                      |
| P6SMBJ33A                         | MM                        | 33.0  | 36.70                                       | 42.20                                       | 1                             | 53.3  | 11.3  | 5                                      |
| P6SMBJ36                          | MN                        | 36.0  | 40.00                                       | 50.70                                       | 1                             | 64.3  | 9.3   | 5                                      |
| P6SMBJ36A                         | MP                        | 36.0  | 40.00                                       | 46.00                                       | 1                             | 58.1  | 10.3  | 5                                      |
| P6SMBJ40                          | MQ                        | 40.0  | 44.40                                       | 56.30                                       | 1                             | 71.4  | 8.4   | 5                                      |
| P6SMBJ40A                         | MR                        | 40.0  | 44.40                                       | 51.10                                       | 1                             | 64.5  | 9.3   | 5                                      |
| P6SMBJ43                          | MS                        | 43.0  | 47.80                                       | 60.50                                       | 1                             | 76.7  | 7.8   | 5                                      |
| P6SMBJ43A                         | MT                        | 43.0  | 47.80                                       | 54.90                                       | 1                             | 69.4  | 8.6   | 5                                      |
| P6SMBJ45                          | MU                        | 45.0  | 50.00                                       | 63.30                                       | 1                             | 80.3  | 7.5   | 5                                      |
| P6SMBJ45A                         | MV                        | 45.0  | 50.00                                       | 57.50                                       | 1                             | 72.7  | 8.3   | 5                                      |
| P6SMBJ48                          | MW                        | 48.0  | 53.30                                       | 67.50                                       | 1                             | 85.5  | 7.0   | 5                                      |
| P6SMBJ48A                         | MX                        | 48.0  | 53.30                                       | 61.30                                       | 1                             | 77.4  | 7.7   | 5                                      |
| P6SMBJ51                          | MY                        | 51.0  | 56.70                                       | 71.80                                       | 1                             | 91.1  | 6.6   | 5                                      |
| P6SMBJ51A                         | MZ                        | 51.0  | 56.70                                       | 65.20                                       | 1                             | 82.4  | 7.3   | 5                                      |
| P6SMBJ54                          | ND                        | 54.0  | 60.00                                       | 76.00                                       | 1                             | 96.3  | 6.2   | 5                                      |
| P6SMBJ54A                         | NE                        | 54.0  | 60.00                                       | 69.00                                       | 1                             | 87.1  | 6.9   | 5                                      |
| P6SMBJ58                          | NF                        | 58.0  | 64.40                                       | 81.60                                       | 1                             | 103.0   | 5.8   | 5                                      |
| P6SMBJ58A                         | NG                        | 58.0  | 64.40                                       | 74.10                                       | 1                             | 93.6  | 6.4   | 5                                      |
| P6SMBJ60                          | NH                        | 60.0  | 66.70                                       | 84.50                                       | 1                             | 107.0   | 5.6   | 5                                      |
| P6SMBJ60A                         | NK                        | 60.0  | 66.70                                       | 76.70                                       | 1                             | 96.8  | 6.2   | 5                                      |
| P6SMBJ64                          | NL                        | 64.0  | 71.10                                       | 90.10                                       | 1                             | 114.0   | 5.3   | 5                                      |
| P6SMBJ64A                         | NM                        | 64.0  | 71.10                                       | 81.80                                       | 1                             | 103.0   | 5.8   | 5                                      |

## UNI-DIRECTIONAL 600 Watt Surface Mount TVS

| UNI-DIRECTIONAL<br>PART<br>NUMBER | DEVICE<br>MARKING<br>CODE | REVERSE<br>STAND-OFF<br>VOLTAGE<br>VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MAX. @IT | TEST<br>CURRENT<br>IT<br>(mA) | MAXIMUM<br>CLAMPING<br>VOLTAGE<br>@I <sub>PP</sub> VC (V) | PEAK<br>PULSE<br>CURRENT<br>I <sub>PP</sub> (A) | REVERSE<br>LEAKAGE<br>@VRWM<br>IR (uA) |
|-----------------------------------|---------------------------|---|---|---|-------------------------------|---|---|--|
| P6SMBJ70                          | NN                        | 70.0  | 77.80                                       | 98.60                                       | 1                             | 125.0   | 4.8   | 5                                      |
| P6SMBJ70A                         | NP                        | 70.0  | 77.80                                       | 89.50                                       | 1                             | 113.0   | 5.3   | 5                                      |
| P6SMBJ75                          | NQ                        | 75.0  | 83.30                                       | 105.70                                      | 1                             | 134.0   | 4.5   | 5                                      |
| P6SMBJ75A                         | NR                        | 75.0  | 83.30                                       | 95.80                                       | 1                             | 121.0   | 4.9   | 5                                      |
| P6SMBJ78                          | NS                        | 78.0  | 86.70                                       | 109.80                                      | 1                             | 139.0   | 4.3   | 5                                      |
| P6SMBJ78A                         | NT                        | 78.0  | 86.70                                       | 99.70                                       | 1                             | 126.0   | 4.7   | 5                                      |
| P6SMBJ85                          | NU                        | 85.0  | 94.40                                       | 119.20                                      | 1                             | 151.0   | 3.9   | 5                                      |
| P6SMBJ85A                         | NV                        | 85.0  | 94.40                                       | 108.20                                      | 1                             | 137.0   | 4.4   | 5                                      |
| P6SMBJ90                          | NW                        | 90.0  | 100.00                                      | 126.50                                      | 1                             | 160.0   | 3.8   | 5                                      |
| P6SMBJ90A                         | NX                        | 90.0  | 100.00                                      | 115.50                                      | 1                             | 146.0   | 4.1   | 5                                      |
| P6SMBJ100                         | NY                        | 100.0                                       | 111.00                                      | 141.00                                      | 1                             | 179.0   | 3.4   | 5                                      |
| P6SMBJ100A                        | NZ                        | 100.0                                       | 111.00                                      | 128.00                                      | 1                             | 162.0   | 3.7   | 5                                      |
| P6SMBJ110                         | PD                        | 110.0                                       | 122.00                                      | 154.50                                      | 1                             | 196.0   | 3.0   | 5                                      |
| P6SMBJ110A                        | PE                        | 110.0                                       | 122.00                                      | 140.50                                      | 1                             | 177.0   | 3.4   | 5                                      |
| P6SMBJ120                         | PF                        | 120.0                                       | 133.00                                      | 169.00                                      | 1                             | 214.0   | 2.8   | 5                                      |
| P6SMBJ120A                        | PG                        | 120.0                                       | 133.00                                      | 153.00                                      | 1                             | 193.0   | 3.1   | 5                                      |
| P6SMBJ130                         | PH                        | 130.0                                       | 144.00                                      | 182.50                                      | 1                             | 231.0   | 2.6   | 5                                      |
| P6SMBJ130A                        | PK                        | 130.0                                       | 144.00                                      | 165.50                                      | 1                             | 209.0   | 2.9   | 5                                      |
| P6SMBJ150                         | PL                        | 150.0                                       | 167.00                                      | 211.50                                      | 1                             | 268.0   | 2.2   | 5                                      |
| P6SMBJ150A                        | PM                        | 150.0                                       | 167.00                                      | 192.50                                      | 1                             | 243.0   | 2.5   | 5                                      |
| P6SMBJ160                         | PN                        | 160.0                                       | 178.00                                      | 226.00                                      | 1                             | 287.0   | 2.1   | 5                                      |
| P6SMBJ160A                        | PP                        | 160.0                                       | 178.00                                      | 205.00                                      | 1                             | 259.0   | 2.3   | 5                                      |
| P6SMBJ170                         | PQ                        | 170.0                                       | 189.00                                      | 239.50                                      | 1                             | 304.0   | 2.0   | 5                                      |
| P6SMBJ170A                        | PR                        | 170.0                                       | 189.00                                      | 217.50                                      | 1                             | 275.0   | 2.2   | 5                                      |

## BI-DIRECTIONAL 600 Watt Surface Mount TVS

| BI-DIRECTIONAL<br>PART<br>NUMBER | DEVICE<br>MARKING<br>CODE | REVERSE<br>STAND-OFF<br>VOLTAGE<br>VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MAX. @IT | TEST<br>CURRENT<br>IT<br>(mA) | MAXIMUM<br>CLAMPING<br>VOLTAGE<br>@I <sub>PP</sub> VC (V) | PEAK<br>PULSE<br>CURRENT<br>I <sub>PP</sub> (A) | REVERSE<br>LEAKAGE<br>@VRWM<br>IR (uA) |
|----------------------------------|---------------------------|---|---|---|-------------------------------|---|---|--|
| P6SMBJ5.0C                       | AD                        | 5.0   | 6.40  | 7.55  | 10                            | 9.6   | 62.5  | 1600                                   |
| P6SMBJ5.0CA                      | AE                        | 5.0   | 6.40  | 7.25  | 10                            | 9.2   | 65.2  | 1600                                   |
| P6SMBJ6.0C                       | AF                        | 6.0   | 6.67  | 8.45  | 10                            | 11.4  | 52.6  | 1600                                   |
| P6SMBJ6.0CA                      | AG                        | 6.0   | 6.67  | 7.67  | 10                            | 10.3  | 58.3  | 1600                                   |
| P6SMBJ6.5C                       | AH                        | 6.5   | 7.22  | 9.14  | 10                            | 12.3  | 48.7  | 1000                                   |
| P6SMBJ6.5CA                      | AK                        | 6.5   | 7.22  | 8.30  | 10                            | 11.2  | 53.6  | 1000                                   |
| P6SMBJ7.0C                       | AL                        | 7.0   | 7.78  | 9.86  | 10                            | 13.3  | 45.1  | 400                                    |
| P6SMBJ7.0CA                      | AM                        | 7.0   | 7.78  | 8.95  | 10                            | 12.0  | 50.0  | 400                                    |
| P6SMBJ7.5C                       | AN                        | 7.5   | 8.33  | 10.67                                       | 1                             | 14.3  | 42.0  | 200                                    |
| P6SMBJ7.5CA                      | AP                        | 7.5   | 8.33  | 9.58  | 1                             | 12.9  | 46.5  | 200                                    |
| P6SMBJ8.0C                       | AQ                        | 8.0   | 8.89  | 11.30                                       | 1                             | 15.0  | 40.0  | 100                                    |
| P6SMBJ8.0CA                      | AR                        | 8.0   | 8.89  | 10.23                                       | 1                             | 13.6  | 44.1  | 100                                    |
| P6SMBJ8.5C                       | AS                        | 8.5   | 9.44  | 11.92                                       | 1                             | 15.9  | 37.7  | 20                                     |
| P6SMBJ8.5CA                      | AT                        | 8.5   | 9.44  | 10.82                                       | 1                             | 14.4  | 41.7  | 20                                     |
| P6SMBJ9.0C                       | AU                        | 9.0   | 10.00                                       | 12.60                                       | 1                             | 16.9  | 35.5  | 10                                     |
| P6SMBJ9.0CA                      | AV                        | 9.0   | 10.00                                       | 11.50                                       | 1                             | 15.4  | 39.0  | 10                                     |
| P6SMBJ10C                        | AW                        | 10.0  | 11.10                                       | 14.10                                       | 1                             | 18.8  | 31.9  | 5                                      |
| P6SMBJ10CA                       | AX                        | 10.0  | 11.10                                       | 12.80                                       | 1                             | 17.0  | 35.3  | 5                                      |
| P6SMBJ11C                        | AY                        | 11.0  | 12.20                                       | 15.40                                       | 1                             | 20.1  | 29.9  | 5                                      |
| P6SMBJ11CA                       | AZ                        | 11.0  | 12.20                                       | 14.00                                       | 1                             | 18.2  | 33.0  | 5                                      |
| P6SMBJ12C                        | BD                        | 12.0  | 13.30                                       | 16.90                                       | 1                             | 22.0  | 27.3  | 5                                      |
| P6SMBJ12CA                       | BE                        | 12.0  | 13.30                                       | 15.30                                       | 1                             | 19.9  | 30.2  | 5                                      |
| P6SMBJ13C                        | BF                        | 13.0  | 14.40                                       | 18.20                                       | 1                             | 23.8  | 25.2  | 5                                      |
| P6SMBJ13CA                       | BG                        | 13.0  | 14.40                                       | 16.50                                       | 1                             | 21.5  | 27.9  | 5                                      |
| P6SMBJ14C                        | BH                        | 14.0  | 15.60                                       | 19.80                                       | 1                             | 25.8  | 23.3  | 5                                      |
| P6SMBJ14CA                       | BK                        | 14.0  | 15.60                                       | 17.90                                       | 1                             | 23.2  | 25.8  | 5                                      |
| P6SMBJ15C                        | BL                        | 15.0  | 16.70                                       | 21.10                                       | 1                             | 26.9  | 22.3  | 5                                      |
| P6SMBJ15CA                       | BM                        | 15.0  | 16.70                                       | 19.20                                       | 1                             | 24.4  | 24.0  | 5                                      |
| P6SMBJ16C                        | BN                        | 16.0  | 17.80                                       | 22.60                                       | 1                             | 28.8  | 20.8  | 5                                      |
| P6SMBJ16CA                       | BP                        | 16.0  | 17.80                                       | 20.50                                       | 1                             | 26.0  | 23.1  | 5                                      |
| P6SMBJ17C                        | BQ                        | 17.0  | 18.90                                       | 23.90                                       | 1                             | 30.5  | 19.7  | 5                                      |
| P6SMBJ17CA                       | BR                        | 17.0  | 18.90                                       | 21.70                                       | 1                             | 27.6  | 21.7  | 5                                      |
| P6SMBJ18C                        | BS                        | 18.0  | 20.00                                       | 25.30                                       | 1                             | 32.2  | 18.6  | 5                                      |
| P6SMBJ18CA                       | BT                        | 18.0  | 20.00                                       | 23.30                                       | 1                             | 29.2  | 20.5  | 5                                      |
| P6SMBJ20C                        | BU                        | 20.0  | 22.20                                       | 28.10                                       | 1                             | 35.8  | 16.7  | 5                                      |
| P6SMBJ20CA                       | BV                        | 20.0  | 22.20                                       | 25.50                                       | 1                             | 32.4  | 18.5  | 5                                      |
| P6SMBJ22C                        | BW                        | 22.0  | 24.40                                       | 30.90                                       | 1                             | 39.4  | 15.2  | 5                                      |
| P6SMBJ22CA                       | BX                        | 22.0  | 24.40                                       | 28.00                                       | 1                             | 35.5  | 16.9  | 5                                      |
| P6SMBJ24C                        | BY                        | 24.0  | 26.70                                       | 33.80                                       | 1                             | 43.0  | 14.0  | 5                                      |
| P6SMBJ24CA                       | BZ                        | 24.0  | 26.70                                       | 30.70                                       | 1                             | 38.9  | 15.4  | 5                                      |
| P6SMBJ26C                        | CD                        | 26.0  | 28.90                                       | 36.60                                       | 1                             | 46.6  | 12.4  | 5                                      |
| P6SMBJ26CA                       | CE                        | 26.0  | 28.90                                       | 33.20                                       | 1                             | 42.1  | 14.2  | 5                                      |

|            |    |      |       |       |   |       |      |   |
|------------|----|------|-------|-------|---|-------|------|---|
| P6SMBJ28C  | CF | 28.0 | 31.10 | 39.40 | 1 | 50.0  | 12.0 | 5 |
| P6SMBJ28CA | CG | 28.0 | 31.10 | 35.80 | 1 | 45.4  | 13.2 | 5 |
| P6SMBJ30C  | CH | 30.0 | 33.30 | 42.20 | 1 | 53.5  | 11.2 | 5 |
| P6SMBJ30CA | CK | 30.0 | 33.30 | 38.30 | 1 | 48.4  | 12.4 | 5 |
| P6SMBJ33C  | CL | 33.0 | 36.70 | 46.50 | 1 | 59.0  | 10.2 | 5 |
| P6SMBJ33CA | CM | 33.0 | 36.70 | 42.20 | 1 | 53.3  | 11.3 | 5 |
| P6SMBJ36C  | CN | 36.0 | 40.00 | 50.70 | 1 | 64.3  | 9.3  | 5 |
| P6SMBJ36CA | CP | 36.0 | 40.00 | 46.00 | 1 | 58.1  | 10.3 | 5 |
| P6SMBJ40C  | CQ | 40.0 | 44.40 | 56.30 | 1 | 71.4  | 8.4  | 5 |
| P6SMBJ40CA | CR | 40.0 | 44.40 | 51.10 | 1 | 64.5  | 9.3  | 5 |
| P6SMBJ43C  | CS | 43.0 | 47.80 | 60.50 | 1 | 76.7  | 7.8  | 5 |
| P6SMBJ43CA | CT | 43.0 | 47.80 | 54.90 | 1 | 69.4  | 8.6  | 5 |
| P6SMBJ45C  | CU | 45.0 | 50.00 | 63.30 | 1 | 80.3  | 7.5  | 5 |
| P6SMBJ45CA | CV | 45.0 | 50.00 | 57.50 | 1 | 72.7  | 8.3  | 5 |
| P6SMBJ48C  | CW | 48.0 | 53.30 | 67.50 | 1 | 85.5  | 7.0  | 5 |
| P6SMBJ48CA | CX | 48.0 | 53.30 | 61.30 | 1 | 77.4  | 7.7  | 5 |
| P6SMBJ51C  | CY | 51.0 | 56.70 | 71.80 | 1 | 91.1  | 6.6  | 5 |
| P6SMBJ51CA | CZ | 51.0 | 56.70 | 65.20 | 1 | 82.4  | 7.3  | 5 |
| P6SMBJ54C  | DD | 54.0 | 60.00 | 76.00 | 1 | 96.3  | 6.2  | 5 |
| P6SMBJ54CA | DE | 54.0 | 60.00 | 69.00 | 1 | 87.1  | 6.9  | 5 |
| P6SMBJ58C  | DF | 58.0 | 64.40 | 81.60 | 1 | 103.0 | 5.8  | 5 |
| P6SMBJ58CA | DG | 58.0 | 64.40 | 74.10 | 1 | 93.6  | 6.4  | 5 |
| P6SMBJ60C  | DH | 60.0 | 66.70 | 84.50 | 1 | 107.0 | 5.6  | 5 |
| P6SMBJ60CA | DK | 60.0 | 66.70 | 76.70 | 1 | 96.8  | 6.2  | 5 |
| P6SMBJ64C  | DL | 64.0 | 71.10 | 90.10 | 1 | 114.0 | 5.3  | 5 |
| P6SMBJ64CA | DM | 64.0 | 71.10 | 81.80 | 1 | 103.0 | 5.8  | 5 |

BI-DIRECTIONAL 600 Watt Surface Mount TVs

| BI-DIRECTIONAL<br>PART<br>NUMBER | DEVICE<br>MARKING<br>CODE | REVERSE<br>STAND-OFF<br>VOLTAGE<br>VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MAX. @IT | TEST<br>CURRENT<br>IT<br>(mA) | MAXIMUM<br>CLAMPING<br>VOLTAGE<br>@I <sub>PP</sub> VC (V) | PEAK<br>PULSE<br>CURRENT<br>I <sub>PP</sub> (A) | REVERSE<br>LEAKAGE<br>@VRWM<br>IR (uA) |
|----------------------------------|---------------------------|---|---|---|-------------------------------|---|---|--|
| P6SMBJ70C                        | DN                        | 70.0  | 77.80                                       | 98.60                                       | 1                             | 125.0   | 4.8   | 5                                      |
| P6SMBJ70CA                       | DP                        | 70.0  | 77.80                                       | 89.50                                       | 1                             | 113.0   | 5.3   | 5                                      |
| P6SMBJ75C                        | DQ                        | 75.0  | 83.30                                       | 105.70                                      | 1                             | 134.0   | 4.5   | 5                                      |
| P6SMBJ75CA                       | DR                        | 75.0  | 83.30                                       | 95.80                                       | 1                             | 121.0   | 4.9   | 5                                      |
| P6SMBJ78C                        | DS                        | 78.0  | 86.70                                       | 109.80                                      | 1                             | 139.0   | 4.3   | 5                                      |
| P6SMBJ78CA                       | DT                        | 78.0  | 86.70                                       | 99.70                                       | 1                             | 126.0   | 4.7   | 5                                      |
| P6SMBJ85C                        | DU                        | 85.0  | 94.40                                       | 119.20                                      | 1                             | 151.0   | 3.9   | 5                                      |
| P6SMBJ85CA                       | DV                        | 85.0  | 94.40                                       | 108.20                                      | 1                             | 137.0   | 4.4   | 5                                      |
| P6SMBJ90C                        | DW                        | 90.0  | 100.00                                      | 126.50                                      | 1                             | 160.0   | 3.8   | 5                                      |
| P6SMBJ90CA                       | DX                        | 90.0  | 100.00                                      | 115.50                                      | 1                             | 146.0   | 4.1   | 5                                      |
| P6SMBJ100C                       | DY                        | 100.0                                       | 111.00                                      | 141.00                                      | 1                             | 179.0   | 3.4   | 5                                      |
| P6SMBJ100CA                      | DZ                        | 100.0                                       | 111.00                                      | 128.00                                      | 1                             | 162.0   | 3.7   | 5                                      |
| P6SMBJ110C                       | ED                        | 110.0                                       | 122.00                                      | 154.50                                      | 1                             | 196.0   | 3.0   | 5                                      |
| P6SMBJ110CA                      | EE                        | 110.0                                       | 122.00                                      | 140.50                                      | 1                             | 177.0   | 3.4   | 5                                      |
| P6SMBJ120C                       | EF                        | 120.0                                       | 133.00                                      | 169.00                                      | 1                             | 214.0   | 2.8   | 5                                      |
| P6SMBJ120CA                      | EG                        | 120.0                                       | 133.00                                      | 153.00                                      | 1                             | 193.0   | 3.1   | 5                                      |
| P6SMBJ130C                       | EH                        | 130.0                                       | 144.00                                      | 182.50                                      | 1                             | 231.0   | 2.6   | 5                                      |
| P6SMBJ130CA                      | EK                        | 130.0                                       | 144.00                                      | 165.50                                      | 1                             | 209.0   | 2.9   | 5                                      |
| P6SMBJ150C                       | EL                        | 150.0                                       | 167.00                                      | 211.50                                      | 1                             | 268.0   | 2.2   | 5                                      |
| P6SMBJ150CA                      | EM                        | 150.0                                       | 167.00                                      | 192.50                                      | 1                             | 243.0   | 2.5   | 5                                      |
| P6SMBJ160C                       | EN                        | 160.0                                       | 178.00                                      | 226.00                                      | 1                             | 287.0   | 2.1   | 5                                      |
| P6SMBJ160CA                      | EP                        | 160.0                                       | 178.00                                      | 205.00                                      | 1                             | 259.0   | 2.3   | 5                                      |
| P6SMBJ170C                       | EQ                        | 170.0                                       | 189.00                                      | 239.50                                      | 1                             | 304.0   | 2.0   | 5                                      |
| P6SMBJ170CA                      | ER                        | 170.0                                       | 189.00                                      | 217.50                                      | 1                             | 275.0   | 2.2   | 5                                      |