



# SMAJ5.0A(CA) - SMAJ440A(CA)

## SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR DIODE

**VOLTAGE RANGE: 5.0 - 440 V**

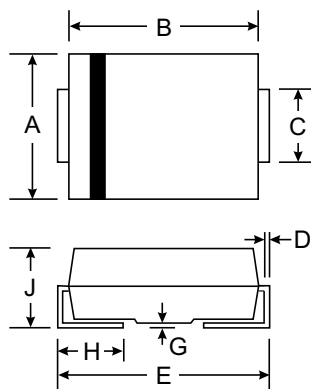
**POWER: 400Watts**

### Features

- Glass Passivated Die Construction
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Material: UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



| SMA(DO-214AC)        |      |      |
|----------------------|------|------|
| Dim                  | Min  | Max  |
| A                    | 2.29 | 2.92 |
| B                    | 4.00 | 4.60 |
| C                    | 1.27 | 1.63 |
| D                    | 0.15 | 0.31 |
| E                    | 4.80 | 5.59 |
| G                    | 0.10 | 0.20 |
| H                    | 0.76 | 1.52 |
| J                    | 2.01 | 2.62 |
| All Dimensions in mm |      |      |

### Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

| Characteristic                                                                                                         | Symbol         | Value       | Unit             |
|------------------------------------------------------------------------------------------------------------------------|----------------|-------------|------------------|
| Peak Pulse Power Dissipation<br>(Non repetitive current pulse derated above $T_A = 25^\circ\text{C}$ )<br>(Note 1)     | $P_{PK}$       | 400         | W                |
| Peak Forward Surge Current, 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)<br>(Notes 1, 2, & 3) | $I_{FSM}$      | 40          | A                |
| Instantaneous Forward Voltage @ $I_{PP} = 35\text{A}$<br>(Notes 1, 2, & 3)                                             | $V_F$          | 3.5         | V                |
| Operating and Storage Temperature Range                                                                                | $T_j, T_{STG}$ | -55 to +150 | $^\circ\text{C}$ |

- Notes:
1. Valid provided that terminals are kept at ambient temperature.
  2. Measured with 8.3ms single half sine-wave. Duty cycle = 4 pulses per minute maximum.
  3. Unidirectional units only.

| TYPE     |           | Marking |      | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I <sub>T</sub> | Breakdown Voltage Max. @ I <sub>T</sub> | Test Current        | Maximum Clamping Voltage @I <sub>PP</sub> | Peak Pulse Current  | Reverse Leakage @V <sub>RWM</sub> |
|----------|-----------|---------|------|---------------------------|----------------------------------------|-----------------------------------------|---------------------|-------------------------------------------|---------------------|-----------------------------------|
| (Uni)    | (Bi)      | (Uni)   | (Bi) | V <sub>RWM</sub> (V)      | V <sub>BR MIN</sub> (V)                | V <sub>BR MAX</sub> (V)                 | I <sub>T</sub> (mA) | V <sub>C</sub> (V)                        | I <sub>PP</sub> (A) | I <sub>R</sub> (uA)               |
| SMAJ5.0  | SMAJ5.0C  | HD      | TD   | 5.0                       | 6.40                                   | 7.55                                    | 10.0                | 9.6                                       | 41.7                | 800.0                             |
| SMAJ5.0A | SMAJ5.0CA | HE      | TE   | 5.0                       | 6.40                                   | 7.25                                    | 10.0                | 9.2                                       | 43.5                | 800.0                             |
| SMAJ6.0  | SMAJ6.0C  | HF      | TF   | 6.0                       | 6.67                                   | 8.45                                    | 10.0                | 11.4                                      | 35.1                | 800.0                             |
| SMAJ6.0A | SMAJ6.0CA | HG      | TG   | 6.0                       | 6.67                                   | 7.67                                    | 10.0                | 10.3                                      | 38.8                | 800.0                             |
| SMAJ6.5  | SMAJ6.5C  | HH      | TH   | 6.5                       | 7.22                                   | 9.14                                    | 10.0                | 12.3                                      | 32.5                | 500.0                             |
| SMAJ6.5A | SMAJ6.5CA | HK      | TK   | 6.5                       | 7.22                                   | 8.30                                    | 10.0                | 11.2                                      | 35.7                | 500.0                             |
| SMAJ7.0  | SMAJ7.0C  | HL      | TL   | 7.0                       | 7.78                                   | 9.86                                    | 10.0                | 13.3                                      | 30.1                | 200.0                             |
| SMAJ7.0A | SMAJ7.0CA | HM      | TM   | 7.0                       | 7.78                                   | 8.95                                    | 10.0                | 12.0                                      | 33.3                | 200.0                             |
| SMAJ7.5  | SMAJ7.5C  | HN      | TN   | 7.5                       | 8.33                                   | 10.67                                   | 1.0                 | 14.3                                      | 28.0                | 100.0                             |
| SMAJ7.5A | SMAJ7.5CA | HP      | TP   | 7.5                       | 8.33                                   | 9.58                                    | 1.0                 | 12.9                                      | 31.0                | 100.0                             |
| SMAJ8.0  | SMAJ8.0C  | HQ      | TQ   | 8.0                       | 8.89                                   | 11.3                                    | 1.0                 | 15.0                                      | 26.7                | 50.0                              |
| SMAJ8.0A | SMAJ8.0CA | HR      | TR   | 8.0                       | 8.89                                   | 10.23                                   | 1.0                 | 13.6                                      | 29.4                | 50.0                              |
| SMAJ8.5  | SMAJ8.5C  | HS      | TS   | 8.5                       | 9.44                                   | 11.92                                   | 1.0                 | 15.9                                      | 25.2                | 20.0                              |
| SMAJ8.5A | SMAJ8.5CA | HT      | TT   | 8.5                       | 9.44                                   | 10.82                                   | 1.0                 | 14.4                                      | 27.8                | 20.0                              |
| SMAJ9.0  | SMAJ9.0C  | HU      | TU   | 9.0                       | 10.0                                   | 12.6                                    | 1.0                 | 16.9                                      | 23.7                | 10.0                              |
| SMAJ9.0A | SMAJ9.0CA | HV      | TV   | 9.0                       | 10.0                                   | 11.5                                    | 1.0                 | 15.4                                      | 26.0                | 10.0                              |
| SMAJ10   | SMAJ10C   | HW      | TW   | 10                        | 11.1                                   | 14.1                                    | 1.0                 | 18.8                                      | 21.3                | 5.0                               |
| SMAJ10A  | SMAJ10CA  | HX      | TX   | 10                        | 11.1                                   | 12.8                                    | 1.0                 | 17.0                                      | 23.5                | 5.0                               |
| SMAJ11   | SMAJ11C   | HY      | TY   | 11                        | 12.2                                   | 15.4                                    | 1.0                 | 20.1                                      | 19.9                | 5.0                               |
| SMAJ11A  | SMAJ11CA  | HZ      | TZ   | 11                        | 12.2                                   | 14.0                                    | 1.0                 | 18.2                                      | 22.0                | 5.0                               |
| SMAJ12   | SMAJ12C   | ID      | UD   | 12                        | 13.3                                   | 16.9                                    | 1.0                 | 22.0                                      | 18.2                | 5.0                               |
| SMAJ12A  | SMAJ12CA  | IE      | UE   | 12                        | 13.3                                   | 15.3                                    | 1.0                 | 19.9                                      | 20.1                | 5.0                               |
| SMAJ13   | SMAJ13C   | IF      | UF   | 13                        | 14.4                                   | 18.2                                    | 1.0                 | 23.8                                      | 16.8                | 5.0                               |
| SMAJ13A  | SMAJ13CA  | IG      | UG   | 13                        | 14.4                                   | 16.5                                    | 1.0                 | 21.5                                      | 18.6                | 5.0                               |
| SMAJ14   | SMAJ14C   | IH      | UH   | 14                        | 15.6                                   | 19.8                                    | 1.0                 | 25.8                                      | 15.5                | 5.0                               |
| SMAJ14A  | SMAJ14CA  | IK      | UK   | 14                        | 15.6                                   | 17.9                                    | 1.0                 | 23.2                                      | 17.2                | 5.0                               |
| SMAJ15   | SMAJ15C   | IL      | UL   | 15                        | 16.7                                   | 21.1                                    | 1.0                 | 26.9                                      | 14.9                | 5.0                               |
| SMAJ15A  | SMAJ15CA  | IM      | UM   | 15                        | 16.7                                   | 19.2                                    | 1.0                 | 24.4                                      | 16.4                | 5.0                               |
| SMAJ16   | SMAJ16C   | IN      | UN   | 16                        | 17.8                                   | 22.6                                    | 1.0                 | 28.8                                      | 13.9                | 5.0                               |
| SMAJ16A  | SMAJ16CA  | IP      | UP   | 16                        | 17.8                                   | 20.5                                    | 1.0                 | 26.0                                      | 15.4                | 5.0                               |
| SMAJ17   | SMAJ17C   | IQ      | UQ   | 17                        | 18.9                                   | 23.9                                    | 1.0                 | 30.5                                      | 13.1                | 5.0                               |
| SMAJ17A  | SMAJ17CA  | IR      | UR   | 17                        | 18.9                                   | 21.7                                    | 1.0                 | 27.6                                      | 14.5                | 5.0                               |
| SMAJ18   | SMAJ18C   | IS      | US   | 18                        | 20.0                                   | 25.3                                    | 1.0                 | 32.2                                      | 12.4                | 5.0                               |
| SMAJ18A  | SMAJ18CA  | IT      | UT   | 18                        | 20.0                                   | 23.3                                    | 1.0                 | 29.2                                      | 13.7                | 5.0                               |
| SMAJ20   | SMAJ20C   | IU      | UU   | 20                        | 22.2                                   | 28.1                                    | 1.0                 | 35.8                                      | 11.2                | 5.0                               |
| SMAJ20A  | SMAJ20CA  | IV      | UV   | 20                        | 22.2                                   | 25.5                                    | 1.0                 | 32.4                                      | 12.3                | 5.0                               |
| SMAJ22   | SMAJ22C   | IW      | UW   | 22                        | 24.4                                   | 30.9                                    | 1.0                 | 39.4                                      | 10.2                | 5.0                               |
| SMAJ22A  | SMAJ22CA  | IX      | UX   | 22                        | 24.4                                   | 28.0                                    | 1.0                 | 35.5                                      | 11.3                | 5.0                               |
| SMAJ24   | SMAJ24C   | IY      | UY   | 24                        | 26.7                                   | 33.8                                    | 1.0                 | 43.0                                      | 9.3                 | 5.0                               |

| TYPE    |          | Marking |      | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I <sub>T</sub> | Breakdown Voltage Max. @ I <sub>T</sub> | Test Current        | Maximum Clamping Voltage @I <sub>PP</sub> | Peak Pulse Current  | Reverse Leakage @V <sub>RWM</sub> |
|---------|----------|---------|------|---------------------------|----------------------------------------|-----------------------------------------|---------------------|-------------------------------------------|---------------------|-----------------------------------|
| (Uni)   | (Bi)     | (Uni)   | (Bi) | V <sub>RWM</sub> (V)      | V <sub>BR</sub> MIN(V)                 | V <sub>BR</sub> MAX(V)                  | I <sub>T</sub> (mA) | V <sub>C</sub> (V)                        | I <sub>PP</sub> (A) | I <sub>R</sub> (uA)               |
| SMAJ24A | SMAJ24CA | IZ      | UZ   | 24                        | 26.7                                   | 30.7                                    | 1.0                 | 38.9                                      | 10.3                | 5.0                               |
| SMAJ26  | SMAJ26C  | JD      | VD   | 26                        | 28.9                                   | 36.6                                    | 1.0                 | 46.6                                      | 8.6                 | 5.0                               |
| SMAJ26A | SMAJ26CA | JE      | VE   | 26                        | 28.9                                   | 33.2                                    | 1.0                 | 42.1                                      | 9.5                 | 5.0                               |
| SMAJ28  | SMAJ28C  | JF      | VF   | 28                        | 31.1                                   | 39.4                                    | 1.0                 | 50.0                                      | 8.0                 | 5.0                               |
| SMAJ28A | SMAJ28CA | JG      | VG   | 28                        | 31.1                                   | 35.8                                    | 1.0                 | 45.4                                      | 8.8                 | 5.0                               |
| SMAJ30  | SMAJ30C  | JH      | VH   | 30                        | 33.3                                   | 42.2                                    | 1.0                 | 53.5                                      | 7.5                 | 5.0                               |
| SMAJ30A | SMAJ30CA | JK      | VK   | 30                        | 33.3                                   | 38.3                                    | 1.0                 | 48.4                                      | 8.3                 | 5.0                               |
| SMAJ33  | SMAJ33C  | JL      | VL   | 33                        | 36.7                                   | 46.5                                    | 1.0                 | 59.0                                      | 6.8                 | 5.0                               |
| SMAJ33A | SMAJ33CA | JM      | VM   | 33                        | 36.7                                   | 42.2                                    | 1.0                 | 53.3                                      | 7.5                 | 5.0                               |
| SMAJ36  | SMAJ36C  | JN      | VN   | 36                        | 40.0                                   | 50.7                                    | 1.0                 | 64.3                                      | 6.2                 | 5.0                               |
| SMAJ36A | SMAJ36CA | JP      | VP   | 36                        | 40.0                                   | 46.0                                    | 1.0                 | 58.1                                      | 6.9                 | 5.0                               |
| SMAJ40  | SMAJ40C  | JQ      | VQ   | 40                        | 44.4                                   | 56.3                                    | 1.0                 | 71.4                                      | 5.6                 | 5.0                               |
| SMAJ40A | SMAJ40CA | JR      | VR   | 40                        | 44.4                                   | 51.1                                    | 1.0                 | 64.5                                      | 6.2                 | 5.0                               |
| SMAJ43  | SMAJ43C  | JS      | VS   | 43                        | 47.7                                   | 60.5                                    | 1.0                 | 76.7                                      | 5.2                 | 5.0                               |
| SMAJ43A | SMAJ43CA | JT      | VT   | 43                        | 47.8                                   | 54.9                                    | 1.0                 | 69.4                                      | 5.8                 | 5.0                               |
| SMAJ45  | SMAJ45C  | JU      | VU   | 45                        | 50.0                                   | 63.3                                    | 1.0                 | 80.3                                      | 5.0                 | 5.0                               |
| SMAJ45A | SMAJ45CA | JV      | VV   | 45                        | 50.0                                   | 57.5                                    | 1.0                 | 72.7                                      | 5.5                 | 5.0                               |
| SMAJ48  | SMAJ48C  | JW      | VW   | 48                        | 53.3                                   | 67.5                                    | 1.0                 | 85.5                                      | 4.7                 | 5.0                               |
| SMAJ48A | SMAJ48CA | JX      | VX   | 48                        | 53.3                                   | 61.3                                    | 1.0                 | 77.4                                      | 5.2                 | 5.0                               |
| SMAJ51  | SMAJ51C  | JY      | VY   | 51                        | 56.7                                   | 71.8                                    | 1.0                 | 91.1                                      | 4.4                 | 5.0                               |
| SMAJ51A | SMAJ51CA | JZ      | VZ   | 51                        | 56.7                                   | 65.2                                    | 1.0                 | 82.4                                      | 4.9                 | 5.0                               |
| SMAJ54  | SMAJ54C  | RD      | WD   | 54                        | 60.0                                   | 76.0                                    | 1.0                 | 96.3                                      | 4.2                 | 5.0                               |
| SMAJ54A | SMAJ54CA | RE      | WE   | 54                        | 60.0                                   | 69.0                                    | 1.0                 | 87.1                                      | 4.6                 | 5.0                               |
| SMAJ58  | SMAJ58C  | RF      | WF   | 58                        | 64.4                                   | 81.6                                    | 1.0                 | 103                                       | 3.9                 | 5.0                               |
| SMAJ58A | SMAJ58CA | RG      | WG   | 58                        | 64.4                                   | 74.1                                    | 1.0                 | 93.6                                      | 4.3                 | 5.0                               |
| SMAJ60  | SMAJ60C  | RH      | WH   | 60                        | 66.7                                   | 84.5                                    | 1.0                 | 107                                       | 3.7                 | 5.0                               |
| SMAJ60A | SMAJ60CA | RK      | WK   | 60                        | 66.7                                   | 76.7                                    | 1.0                 | 96.8                                      | 4.1                 | 5.0                               |
| SMAJ64  | SMAJ64C  | RL      | WL   | 64                        | 71.1                                   | 90.1                                    | 1.0                 | 114                                       | 3.5                 | 5.0                               |
| SMAJ64A | SMAJ64CA | RM      | WM   | 64                        | 71.1                                   | 81.8                                    | 1.0                 | 103                                       | 3.9                 | 5.0                               |
| SMAJ70  | SMAJ70C  | RN      | WN   | 70                        | 77.8                                   | 98.6                                    | 1.0                 | 125                                       | 3.2                 | 5.0                               |
| SMAJ70A | SMAJ70CA | RP      | WP   | 70                        | 77.8                                   | 89.5                                    | 1.0                 | 113                                       | 3.5                 | 5.0                               |
| SMAJ75  | SMAJ75C  | RQ      | WQ   | 75                        | 83.0                                   | 105.7                                   | 1.0                 | 134                                       | 3.0                 | 5.0                               |
| SMAJ75A | SMAJ75CA | RR      | WR   | 75                        | 83.0                                   | 95.8                                    | 1.0                 | 121                                       | 3.3                 | 5.0                               |
| SMAJ78  | SMAJ78C  | RS      | WS   | 78                        | 86.0                                   | 109.8                                   | 1.0                 | 139                                       | 2.9                 | 5.0                               |
| SMAJ78A | SMAJ78CA | RT      | WT   | 78                        | 86.0                                   | 99.7                                    | 1.0                 | 126                                       | 3.2                 | 5.0                               |

| TYPE     |           | Marking |      | Reverse Stand-Off Voltage | Breakdown Voltage Min. @I <sub>T</sub> | Breakdown Voltage Max. @ I <sub>T</sub> | Test Current        | Maximum Clamping Voltage @I <sub>PP</sub> | Peak Pulse Current  | Reverse Leakage @V <sub>RWM</sub> |
|----------|-----------|---------|------|---------------------------|----------------------------------------|-----------------------------------------|---------------------|-------------------------------------------|---------------------|-----------------------------------|
| (Uni)    | (Bi)      | (Uni)   | (Bi) | V <sub>RWM</sub> (V)      | V <sub>BR</sub> MIN(V)                 | V <sub>BR</sub> MAX(V)                  | I <sub>T</sub> (mA) | V <sub>C</sub> (V)                        | I <sub>PP</sub> (A) | I <sub>R</sub> (uA)               |
| SMAJ85   | SMAJ85C   | RU      | WU   | 85                        | 94.0                                   | 119.2                                   | 1.0                 | 151                                       | 2.6                 | 5.0                               |
| SMAJ85A  | SMAJ85CA  | RV      | WV   | 85                        | 94.0                                   | 108.2                                   | 1.0                 | 137                                       | 2.9                 | 5.0                               |
| SMAJ90   | SMAJ90C   | RW      | WW   | 90                        | 100                                    | 126.5                                   | 1.0                 | 160                                       | 2.5                 | 5.0                               |
| SMAJ90A  | SMAJ90CA  | RX      | WX   | 90                        | 100                                    | 115.5                                   | 1.0                 | 146                                       | 2.7                 | 5.0                               |
| SMAJ100  | SMAJ100C  | RY      | WY   | 100                       | 111                                    | 141.0                                   | 1.0                 | 179                                       | 2.2                 | 5.0                               |
| SMAJ100A | SMAJ100CA | RZ      | WZ   | 100                       | 111                                    | 128.0                                   | 1.0                 | 162                                       | 2.5                 | 5.0                               |
| SMAJ110  | SMAJ110C  | SD      | XD   | 110                       | 122                                    | 154.5                                   | 1.0                 | 196                                       | 2.0                 | 5.0                               |
| SMAJ110A | SMAJ110CA | SE      | XE   | 110                       | 122                                    | 140.5                                   | 1.0                 | 177                                       | 2.3                 | 5.0                               |
| SMAJ120  | SMAJ120C  | SF      | XF   | 120                       | 133                                    | 169.0                                   | 1.0                 | 214                                       | 1.9                 | 5.0                               |
| SMAJ120A | SMAJ120CA | SG      | XG   | 120                       | 133                                    | 153.0                                   | 1.0                 | 193                                       | 2.1                 | 5.0                               |
| SMAJ130  | SMAJ130C  | SH      | XH   | 130                       | 144                                    | 182.5                                   | 1.0                 | 231                                       | 1.7                 | 5.0                               |
| SMAJ130A | SMAJ130CA | SK      | XK   | 130                       | 144                                    | 165.5                                   | 1.0                 | 209                                       | 1.9                 | 5.0                               |
| SMAJ150  | SMAJ150C  | SL      | XL   | 150                       | 167                                    | 211.5                                   | 1.0                 | 268                                       | 1.5                 | 5.0                               |
| SMAJ150A | SMAJ150CA | SM      | XM   | 150                       | 167                                    | 192.5                                   | 1.0                 | 243                                       | 1.6                 | 5.0                               |
| SMAJ160  | SMAJ160C  | SN      | XN   | 160                       | 178                                    | 226.0                                   | 1.0                 | 287                                       | 1.4                 | 5.0                               |
| SMAJ160A | SMAJ160CA | SP      | XP   | 160                       | 178                                    | 205.0                                   | 1.0                 | 259                                       | 1.5                 | 5.0                               |
| SMAJ170  | SMAJ170C  | SQ      | XQ   | 170                       | 189                                    | 239.5                                   | 1.0                 | 304                                       | 1.3                 | 5.0                               |
| SMAJ170A | SMAJ170CA | SR      | XR   | 170                       | 189                                    | 217.5                                   | 1.0                 | 275                                       | 1.5                 | 5.0                               |
| SMAJ180  | SMAJ180C  | SS      | XS   | 180                       | 200                                    | 253.8                                   | 1.0                 | 321                                       | 1.2                 | 5.0                               |
| SMAJ180A | SMAJ180CA | ST      | XT   | 180                       | 200                                    | 230.4                                   | 1.0                 | 290                                       | 1.4                 | 5.0                               |
| SMAJ190  | SMAJ190C  | SU      | XU   | 190                       | 211                                    | 267.9                                   | 1.0                 | 339                                       | 1.2                 | 5.0                               |
| SMAJ190A | SMAJ190CA | SV      | XV   | 190                       | 211                                    | 243.2                                   | 1.0                 | 306                                       | 1.3                 | 5.0                               |
| SMAJ200  | SMAJ200C  | SW      | XW   | 200                       | 222                                    | 282.0                                   | 1.0                 | 356                                       | 1.1                 | 5.0                               |
| SMAJ200A | SMAJ200CA | SX      | XX   | 200                       | 222                                    | 256.0                                   | 1.0                 | 322                                       | 1.2                 | 5.0                               |
| SMAJ210  | SMAJ210C  | SY      | XY   | 210                       | 233                                    | 296.1                                   | 1.0                 | 375                                       | 1.1                 | 5.0                               |
| SMAJ210A | SMAJ210CA | SZ      | XZ   | 210                       | 233                                    | 268.8                                   | 1.0                 | 339                                       | 1.2                 | 5.0                               |
| SMAJ220  | SMAJ220C  | ZD      | YD   | 220                       | 244                                    | 310.2                                   | 1.0                 | 392                                       | 1.0                 | 5.0                               |
| SMAJ220A | SMAJ220CA | ZE      | YE   | 220                       | 244                                    | 281.6                                   | 1.0                 | 355                                       | 1.1                 | 5.0                               |
| SMAJ250  | SMAJ250C  | ZF      | YF   | 250                       | 278                                    | 342.5                                   | 1.0                 | 447                                       | 0.9                 | 5.0                               |
| SMAJ250A | SMAJ250CA | ZG      | YG   | 250                       | 278                                    | 309.0                                   | 1.0                 | 403                                       | 1.0                 | 5.0                               |
| SMAJ300  | SMAJ300C  | ZH      | YH   | 300                       | 333                                    | 411.0                                   | 1.0                 | 535                                       | 0.7                 | 5.0                               |
| SMAJ300A | SMAJ300CA | ZK      | YK   | 300                       | 333                                    | 371.0                                   | 1.0                 | 484                                       | 0.8                 | 5.0                               |
| SMAJ350  | SMAJ350C  | ZL      | YL   | 350                       | 389                                    | 479.5                                   | 1.0                 | 624                                       | 0.6                 | 5.0                               |
| SMAJ350A | SMAJ350CA | ZM      | YM   | 350                       | 389                                    | 432.0                                   | 1.0                 | 565                                       | 0.7                 | 5.0                               |
| SMAJ400  | SMAJ400C  | ZN      | YN   | 400                       | 444                                    | 548.0                                   | 1.0                 | 687                                       | 0.6                 | 5.0                               |
| SMAJ400A | SMAJ400CA | ZP      | YP   | 400                       | 444                                    | 494.0                                   | 1.0                 | 645                                       | 0.6                 | 5.0                               |
| SMAJ440  | SMAJ440C  | ZQ      | YQ   | 440                       | 489                                    | 602.8                                   | 1.0                 | 786                                       | 0.5                 | 5.0                               |
| SMAJ440A | SMAJ440CA | ZR      | YR   | 440                       | 489                                    | 543.0                                   | 1.0                 | 710                                       | 0.6                 | 5.0                               |

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

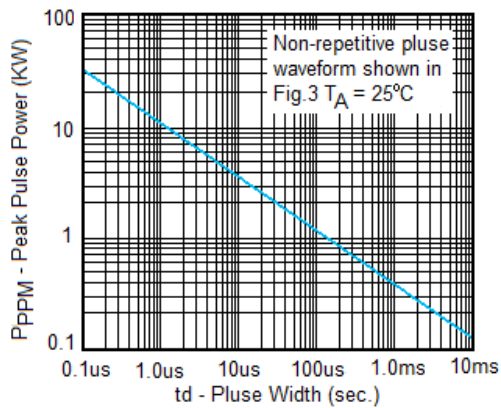


Fig. 1 Peak Pulse Power Rating

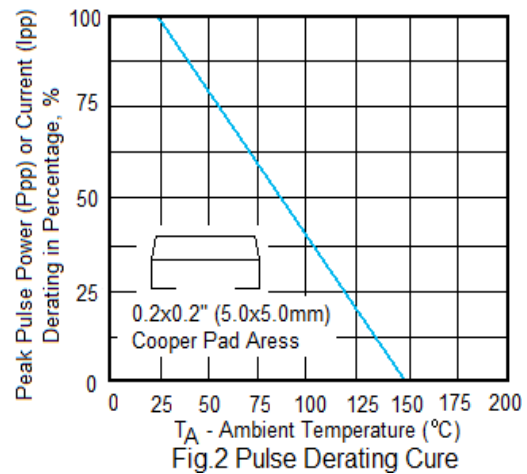


Fig. 2 Pulse Derating Curve

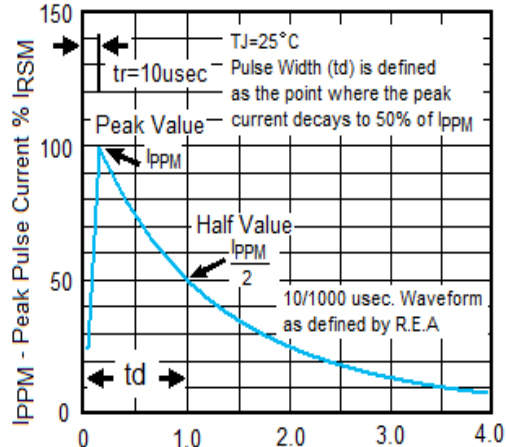


Fig. 3 Pulse Waveform

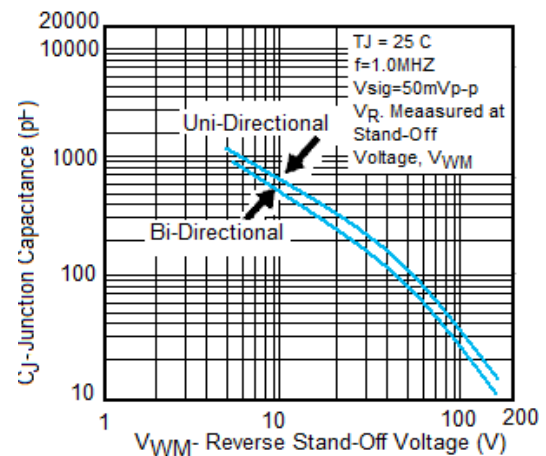


Fig. 4- Typical Junction Capacitance