

# SMD Transient Voltage Suppressor



SMD Diodes Specialist

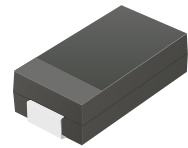
## TV15C5V0-HF Thru. TV15C441-HF

Working Peak Reverse Voltage: 5.0 - 440 Volts

Power Dissipation: 1500Watts

RoHS Device

Halogen free

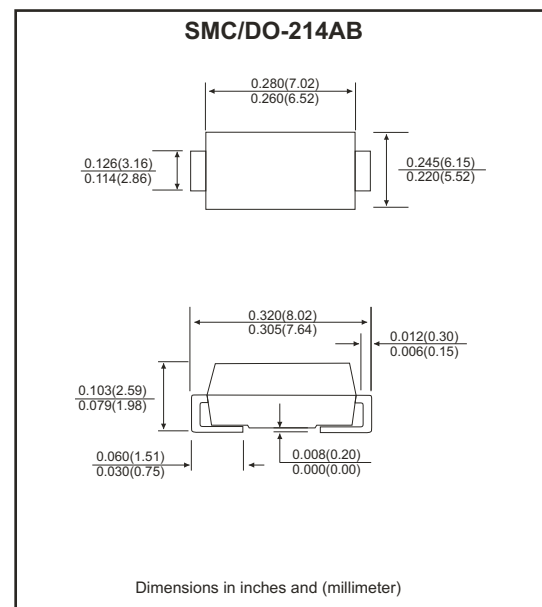


### Features

- Glass passivated chip.
- 1500 W peak pulse power capability with a 10/1000 $\mu$ s waveform, repetitive rate (duty cycle):0.01%
- Low leakage
- Uni and Bidirectional unit
- Excellent clamping capability.
- Very fast response time

### Mechanical Data

- Case: DO-214AB/SMC molded plastic.
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Cathode band denoted.
- Weight: Approx. 0.21 grams.



### Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| Characteristics                                                                                                    | Symbol           | Value       | Units |
|--------------------------------------------------------------------------------------------------------------------|------------------|-------------|-------|
| Peak power dissipation at 10/1000 $\mu$ s waveform (Notes.1)                                                       | P <sub>PPM</sub> | 1500        | W     |
| Peak pulse current at 10/1000 $\mu$ s waveform (Notes.1)                                                           | I <sub>PPM</sub> | See table 1 | A     |
| Steady state power dissipation at T <sub>L</sub> =75°C                                                             | P <sub>D</sub>   | 6.5         | W     |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load, uni-directional only (Notes.2) | I <sub>FSM</sub> | 200         | A     |
| Maximum instantaneous forward voltage at 100A for uni-directional only (Note.3)                                    | V <sub>F</sub>   | 3.5/5.0     | V     |
| Operation junction temperature range                                                                               | T <sub>J</sub>   | -55 to +150 | °C    |
| Storage temperature range                                                                                          | T <sub>STG</sub> | -55 to +150 | °C    |

Notes:

1. Non-repetitive current pulse, per Fig. 5 and derated above T<sub>A</sub>=25 °C, per Fig. 1
2. Measured on 8.3 ms single half sine-wave or equivalent square wave,duty cycle=4 pulses per minute maximum.
3. V<sub>F</sub><3.5V for devices of V<sub>BR</sub><200V and V<sub>F</sub><5.0V for devices of V<sub>BR</sub>>201V

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## Ratings and Characteristics Curve (TV15C5V0-HF Thru. TV15C441-HF)

Fig.1 Pulse Derating Curve

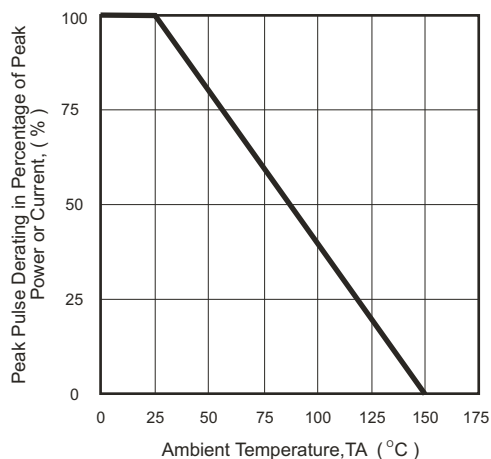


Fig.2 Max. Non-Repetitive Surge Current

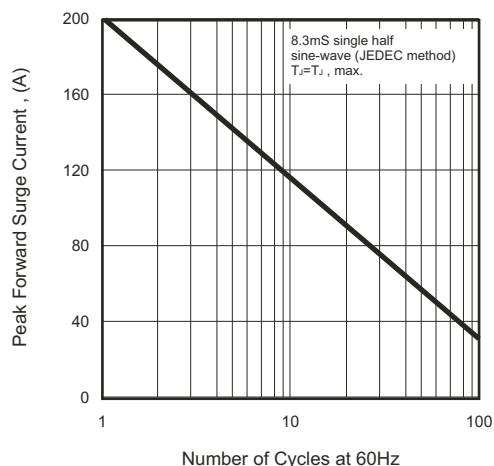


Fig.3 Steady State Power Derating Curve

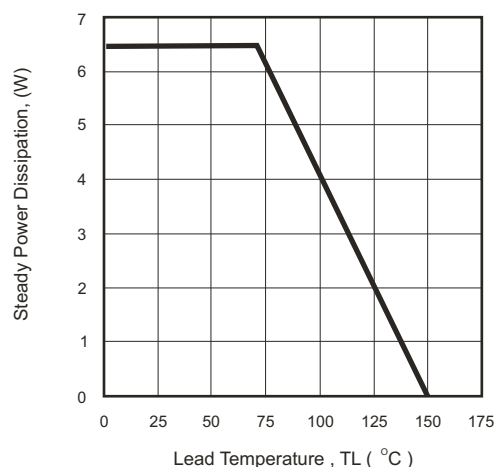


Fig.4 Peak Pulse Power Rating Curve

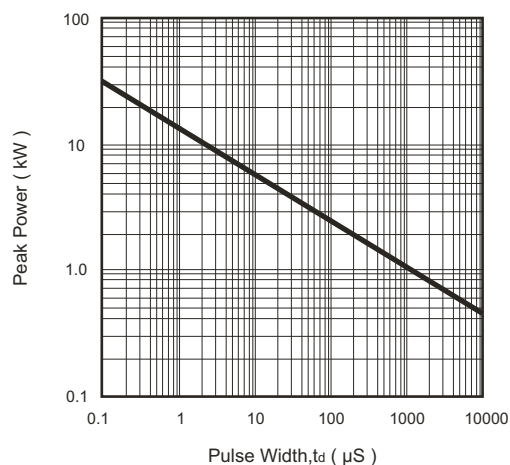


Fig.5 Pulse Waveform

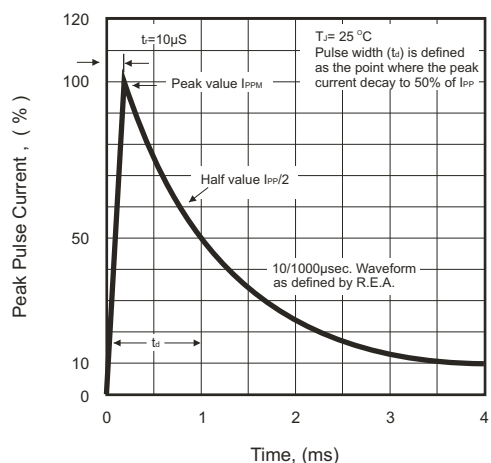
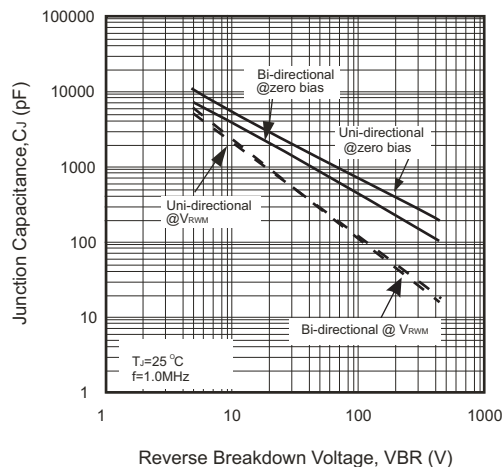


Fig.6 Typical Junction Capacitance



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## Electrical Characteristics (TV15C5V0-HF Thru. TV15C441-HF)

| Part No         | Absolute Maximum Rating(Ta=25° C) |                     |                     |                |                  | Electrical Characteristic(Ta=25° C) |        |                                  |              |     |
|-----------------|-----------------------------------|---------------------|---------------------|----------------|------------------|-------------------------------------|--------|----------------------------------|--------------|-----|
|                 | V <sub>RWM</sub>                  | V <sub>BR</sub> Min | V <sub>BR</sub> Max | I <sub>T</sub> | I <sub>FSM</sub> | MAX V <sub>C</sub>                  |        | I <sub>R</sub> @V <sub>RWM</sub> | Marking Code |     |
|                 | (V)                               | (V)                 | (V)                 | (mA)           | (A)@8.3ms        | (V)                                 | IPP(A) | (uA)                             | UNI          | BI  |
| TV15C5V0K(B)-HF | 5.00                              | 6.40                | 7.30                | 10             | 200              | 9.6                                 | 156.25 | 1000                             | GDD          | BDD |
| TV15C5V0J(B)-HF | 5.00                              | 6.40                | 7.00                | 10             | 200              | 9.2                                 | 163.04 | 1000                             | GDE          | BDE |
| TV15C6V0K(B)-HF | 6.00                              | 6.67                | 8.15                | 10             | 200              | 11.4                                | 131.58 | 1000                             | GDF          | BDF |
| TV15C6V0J(B)-HF | 6.00                              | 6.67                | 7.37                | 10             | 200              | 10.3                                | 145.63 | 1000                             | GDG          | BDG |
| TV15C6V5K(B)-HF | 6.50                              | 7.22                | 8.82                | 10             | 200              | 12.3                                | 121.95 | 500                              | GDH          | BDH |
| TV15C6V5J(B)-HF | 6.50                              | 7.22                | 7.98                | 10             | 200              | 11.2                                | 133.93 | 500                              | GDK          | BDK |
| TV15C7V0K(B)-HF | 7.00                              | 7.78                | 9.51                | 10             | 200              | 13.3                                | 112.78 | 200                              | GDL          | BDL |
| TV15C7V0J(B)-HF | 7.00                              | 7.78                | 8.60                | 10             | 200              | 12.0                                | 125.00 | 200                              | GDM          | BDM |
| TV15C7V5K(B)-HF | 7.50                              | 8.33                | 10.20               | 1              | 200              | 14.3                                | 104.90 | 100                              | GDN          | BDN |
| TV15C7V5J(B)-HF | 7.50                              | 8.33                | 9.21                | 1              | 200              | 12.9                                | 116.28 | 100                              | GDP          | BDP |
| TV15C8V0K(B)-HF | 8.00                              | 8.89                | 10.90               | 1              | 200              | 15.0                                | 100.00 | 50                               | GDQ          | BDQ |
| TV15C8V0J(B)-HF | 8.00                              | 8.89                | 9.83                | 1              | 200              | 13.6                                | 110.29 | 50                               | GDR          | BDR |
| TV15C8V5K(B)-HF | 8.50                              | 9.44                | 11.50               | 1              | 200              | 15.9                                | 94.34  | 20                               | GDS          | BDS |
| TV15C8V5J(B)-HF | 8.50                              | 9.44                | 10.40               | 1              | 200              | 14.4                                | 104.17 | 20                               | GDT          | BDT |
| TV15C9V0K(B)-HF | 9.00                              | 10.00               | 12.20               | 1              | 200              | 16.9                                | 88.76  | 10                               | GDU          | BDU |
| TV15C9V0J(B)-HF | 9.00                              | 10.00               | 11.10               | 1              | 200              | 15.4                                | 97.40  | 10                               | GDV          | BDV |
| TV15C100K(B)-HF | 10.0                              | 11.10               | 13.60               | 1              | 200              | 18.8                                | 79.79  | 5                                | GDW          | BDW |
| TV15C100J(B)-HF | 10.0                              | 11.10               | 12.30               | 1              | 200              | 17.0                                | 88.24  | 5                                | GDX          | BDX |
| TV15C110K(B)-HF | 11.0                              | 12.20               | 14.90               | 1              | 200              | 20.1                                | 74.63  | 5                                | GDY          | BDY |
| TV15C110J(B)-HF | 11.0                              | 12.20               | 13.50               | 1              | 200              | 18.2                                | 82.42  | 5                                | GDZ          | BDZ |
| TV15C120K(B)-HF | 12.0                              | 13.30               | 16.30               | 1              | 200              | 22.0                                | 68.18  | 5                                | GED          | BED |
| TV15C120J(B)-HF | 12.0                              | 13.30               | 14.70               | 1              | 200              | 19.9                                | 75.38  | 5                                | GEE          | BEE |
| TV15C130K(B)-HF | 13.0                              | 14.40               | 17.60               | 1              | 200              | 23.8                                | 63.03  | 5                                | GEF          | BEF |
| TV15C130J(B)-HF | 13.0                              | 14.40               | 15.90               | 1              | 200              | 21.5                                | 69.77  | 5                                | GDG          | BEG |
| TV15C140K(B)-HF | 14.0                              | 15.60               | 19.10               | 1              | 200              | 25.8                                | 58.14  | 5                                | GEH          | BEH |
| TV15C140J(B)-HF | 14.0                              | 15.60               | 17.20               | 1              | 200              | 23.2                                | 64.66  | 5                                | GEK          | BEK |
| TV15C150K(B)-HF | 15.0                              | 16.70               | 20.40               | 1              | 200              | 26.9                                | 55.76  | 5                                | GEL          | BEL |
| TV15C150J(B)-HF | 15.0                              | 16.70               | 18.50               | 1              | 200              | 24.4                                | 61.48  | 5                                | GEM          | BEM |
| TV15C160K(B)-HF | 16.0                              | 17.80               | 21.80               | 1              | 200              | 28.8                                | 52.08  | 5                                | GEN          | BEN |
| TV15C160J(B)-HF | 16.0                              | 17.80               | 19.70               | 1              | 200              | 26.0                                | 57.69  | 5                                | GEP          | BEP |
| TV15C170K(B)-HF | 17.0                              | 18.90               | 23.10               | 1              | 200              | 30.5                                | 49.18  | 5                                | GEQ          | BEQ |
| TV15C170J(B)-HF | 17.0                              | 18.90               | 20.90               | 1              | 200              | 27.6                                | 54.35  | 5                                | GER          | BER |
| TV15C180K(B)-HF | 18.0                              | 20.00               | 24.40               | 1              | 200              | 32.2                                | 46.58  | 5                                | GES          | BES |
| TV15C180J(B)-HF | 18.0                              | 20.00               | 22.10               | 1              | 200              | 29.2                                | 51.37  | 5                                | GET          | BET |
| TV15C190K(B)-HF | 19.0                              | 21.13               | 25.76               | 1              | 200              | 34.0                                | 44.10  | 5                                | GEA          | BEA |
| TV15C190J(B)-HF | 19.0                              | 21.10               | 23.30               | 1              | 200              | 30.8                                | 48.73  | 5                                | GEB          | BEB |
| TV15C200K(B)-HF | 20.0                              | 22.20               | 27.10               | 1              | 200              | 35.8                                | 41.90  | 5                                | GEU          | BEU |
| TV15C200J(B)-HF | 20.0                              | 22.20               | 24.50               | 1              | 200              | 32.4                                | 46.30  | 5                                | GEV          | BEV |
| TV15C220K(B)-HF | 22.0                              | 24.40               | 29.80               | 1              | 200              | 39.4                                | 38.07  | 5                                | GEW          | BEW |
| TV15C220J(B)-HF | 22.0                              | 24.40               | 26.90               | 1              | 200              | 35.5                                | 42.25  | 5                                | GEX          | BEX |
| TV15C240K(B)-HF | 24.0                              | 26.70               | 32.60               | 1              | 200              | 43.0                                | 34.88  | 5                                | GEY          | BEY |
| TV15C240J(B)-HF | 24.0                              | 26.70               | 29.50               | 1              | 200              | 38.9                                | 38.56  | 5                                | GEZ          | BEZ |
| TV15C260K(B)-HF | 26.0                              | 28.90               | 35.30               | 1              | 200              | 46.6                                | 32.19  | 5                                | GFD          | BFD |
| TV15C260J(B)-HF | 26.0                              | 28.90               | 31.90               | 1              | 200              | 42.1                                | 35.63  | 5                                | GFE          | BFE |
| TV15C280K(B)-HF | 28.0                              | 31.10               | 38.00               | 1              | 200              | 50.0                                | 30.00  | 5                                | GFF          | BFF |
| TV15C280J(B)-HF | 28.0                              | 31.10               | 34.40               | 1              | 200              | 45.4                                | 33.04  | 5                                | GFG          | BFG |
| TV15C300K(B)-HF | 30.0                              | 33.30               | 40.70               | 1              | 200              | 53.5                                | 28.04  | 5                                | GFH          | BFH |
| TV15C300J(B)-HF | 30.0                              | 33.30               | 36.80               | 1              | 200              | 48.4                                | 30.99  | 5                                | GFK          | BFK |

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## Electrical Characteristics (TV15C5V0-HF Thru. TV15C441-HF)

| Part No         | Absolute Maximum Rating(Ta=25 °C) |                     |                     |                |                  | Electrical Characteristic(Ta=25 °C) |        |                                  |              |     |
|-----------------|-----------------------------------|---------------------|---------------------|----------------|------------------|-------------------------------------|--------|----------------------------------|--------------|-----|
|                 | V <sub>RWM</sub>                  | V <sub>BR</sub> Min | V <sub>BR</sub> Max | I <sub>T</sub> | I <sub>FSM</sub> | MAX V <sub>C</sub>                  |        | I <sub>R</sub> @V <sub>RWM</sub> | Marking Code |     |
|                 | (V)                               | (V)                 | (V)                 | (mA)           | (A)@8.3ms        | (V)                                 | IPP(A) | (uA)                             | UNI          | BI  |
| TV15C330K(B)-HF | 33.0                              | 36.70               | 44.90               | 1              | 200              | 59.0                                | 25.42  | 5                                | GFL          | BFL |
| TV15C330J(B)-HF | 33.0                              | 36.70               | 40.60               | 1              | 200              | 53.3                                | 28.14  | 5                                | GFM          | BFM |
| TV15C360K(B)-HF | 36.0                              | 40.00               | 48.90               | 1              | 200              | 64.3                                | 23.33  | 5                                | GFN          | BFN |
| TV15C360J(B)-HF | 36.0                              | 40.00               | 44.20               | 1              | 200              | 58.1                                | 25.82  | 5                                | GFP          | BFP |
| TV15C400K(B)-HF | 40.0                              | 44.40               | 54.30               | 1              | 200              | 71.4                                | 21.01  | 5                                | GFQ          | BFQ |
| TV15C400J(B)-HF | 40.0                              | 44.40               | 49.10               | 1              | 200              | 64.5                                | 23.26  | 5                                | GFR          | BFR |
| TV15C430K(B)-HF | 43.0                              | 47.80               | 58.40               | 1              | 200              | 76.7                                | 19.56  | 5                                | GFS          | BFS |
| TV15C430J(B)-HF | 43.0                              | 47.80               | 52.80               | 1              | 200              | 69.4                                | 21.61  | 5                                | GFT          | BFT |
| TV15C450K(B)-HF | 45.0                              | 50.00               | 61.10               | 1              | 200              | 80.3                                | 18.68  | 5                                | GFU          | BFU |
| TV15C450J(B)-HF | 45.0                              | 50.00               | 55.30               | 1              | 200              | 72.7                                | 20.63  | 5                                | GFV          | BFV |
| TV15C480K(B)-HF | 48.0                              | 53.30               | 65.10               | 1              | 200              | 85.5                                | 17.54  | 5                                | GFW          | BFW |
| TV15C480J(B)-HF | 48.0                              | 53.30               | 58.90               | 1              | 200              | 77.4                                | 19.38  | 5                                | GFX          | BFX |
| TV15C510K(B)-HF | 51.0                              | 56.70               | 69.30               | 1              | 200              | 91.1                                | 16.47  | 5                                | GFY          | BFY |
| TV15C510J(B)-HF | 51.0                              | 56.70               | 62.70               | 1              | 200              | 82.4                                | 18.20  | 5                                | GFZ          | BFZ |
| TV15C540K(B)-HF | 54.0                              | 60.00               | 73.30               | 1              | 200              | 96.3                                | 15.58  | 5                                | GGD          | BGD |
| TV15C540J(B)-HF | 54.0                              | 60.00               | 66.30               | 1              | 200              | 87.1                                | 17.22  | 5                                | GGE          | BGE |
| TV15C580K(B)-HF | 58.0                              | 64.40               | 78.70               | 1              | 200              | 103.0                               | 14.56  | 5                                | GGF          | BGF |
| TV15C580J(B)-HF | 58.0                              | 64.40               | 71.20               | 1              | 200              | 93.6                                | 16.03  | 5                                | GGG          | BGG |
| TV15C600K(B)-HF | 60.0                              | 66.70               | 81.50               | 1              | 200              | 107.0                               | 14.02  | 5                                | GGH          | BGH |
| TV15C600J(B)-HF | 60.0                              | 66.70               | 73.70               | 1              | 200              | 96.8                                | 15.50  | 5                                | GGK          | BGK |
| TV15C640K(B)-HF | 64.0                              | 71.10               | 86.90               | 1              | 200              | 114.0                               | 13.16  | 5                                | GGL          | BGL |
| TV15C640J(B)-HF | 64.0                              | 71.10               | 78.60               | 1              | 200              | 103.0                               | 14.56  | 5                                | GGM          | BGM |
| TV15C700K(B)-HF | 70.0                              | 77.80               | 95.10               | 1              | 200              | 125.0                               | 12.00  | 5                                | GGN          | BGN |
| TV15C700J(B)-HF | 70.0                              | 77.80               | 86.00               | 1              | 200              | 113.0                               | 13.27  | 5                                | GGP          | BGP |
| TV15C750K(B)-HF | 75.0                              | 83.30               | 102.00              | 1              | 200              | 134.0                               | 11.19  | 5                                | GGQ          | BGQ |
| TV15C750J(B)-HF | 75.0                              | 83.30               | 92.10               | 1              | 200              | 121.0                               | 12.40  | 5                                | GGR          | BGR |
| TV15C780K(B)-HF | 78.0                              | 86.70               | 106.00              | 1              | 200              | 139.0                               | 10.79  | 5                                | GGS          | BGS |
| TV15C780J(B)-HF | 78.0                              | 86.70               | 95.80               | 1              | 200              | 126.0                               | 11.90  | 5                                | GGT          | BGT |
| TV15C800K(B)-HF | 80.0                              | 88.96               | 108.80              | 1              | 200              | 143.2                               | 10.47  | 5                                | GGA          | BGA |
| TV15C800J(B)-HF | 80.0                              | 88.80               | 97.60               | 1              | 200              | 129.6                               | 11.57  | 5                                | GGB          | BGB |
| TV15C850K(B)-HF | 85.0                              | 94.40               | 115.00              | 1              | 200              | 151.0                               | 9.93   | 5                                | GGU          | BGU |
| TV15C850J(B)-HF | 85.0                              | 94.40               | 104.00              | 1              | 200              | 137.0                               | 10.95  | 5                                | GGV          | BGV |
| TV15C900K(B)-HF | 90.0                              | 100.00              | 122.00              | 1              | 200              | 160.0                               | 9.38   | 5                                | GGW          | BGW |
| TV15C900J(B)-HF | 90.0                              | 100.00              | 111.00              | 1              | 200              | 146.0                               | 10.27  | 5                                | GGX          | BGX |
| TV15C101K(B)-HF | 100.0                             | 111.00              | 136.00              | 1              | 200              | 179.0                               | 8.38   | 5                                | GGY          | BGY |
| TV15C101J(B)-HF | 100.0                             | 111.00              | 123.00              | 1              | 200              | 162.0                               | 9.26   | 5                                | GGZ          | BGZ |
| TV15C111K(B)-HF | 110.0                             | 122.00              | 149.00              | 1              | 200              | 196.0                               | 7.65   | 5                                | GHD          | BHD |
| TV15C111J(B)-HF | 110.0                             | 122.00              | 135.00              | 1              | 200              | 177.0                               | 8.47   | 5                                | GHE          | BHE |
| TV15C121K(B)-HF | 120.0                             | 133.00              | 163.00              | 1              | 200              | 214.0                               | 7.01   | 5                                | GHF          | BHF |
| TV15C121J(B)-HF | 120.0                             | 133.00              | 147.00              | 1              | 200              | 193.0                               | 7.77   | 5                                | GHG          | BHG |
| TV15C131K(B)-HF | 130.0                             | 144.00              | 176.00              | 1              | 200              | 231.0                               | 6.49   | 5                                | GHH          | BHH |
| TV15C131J(B)-HF | 130.0                             | 144.00              | 159.00              | 1              | 200              | 209.0                               | 7.18   | 5                                | GHK          | BHK |
| TV15C141K(B)-HF | 140.0                             | 155.68              | 190.40              | 1              | 200              | 250.6                               | 5.99   | 5                                | GHA          | BHA |
| TV15C141J(B)-HF | 140.0                             | 155.00              | 171.00              | 1              | 200              | 226.8                               | 6.61   | 5                                | GHB          | BHB |
| TV15C151K(B)-HF | 150.0                             | 167.00              | 204.00              | 1              | 200              | 268.0                               | 5.60   | 5                                | GHL          | BHL |
| TV15C151J(B)-HF | 150.0                             | 167.00              | 185.00              | 1              | 200              | 243.0                               | 6.17   | 5                                | GHM          | BHM |

Rev. A

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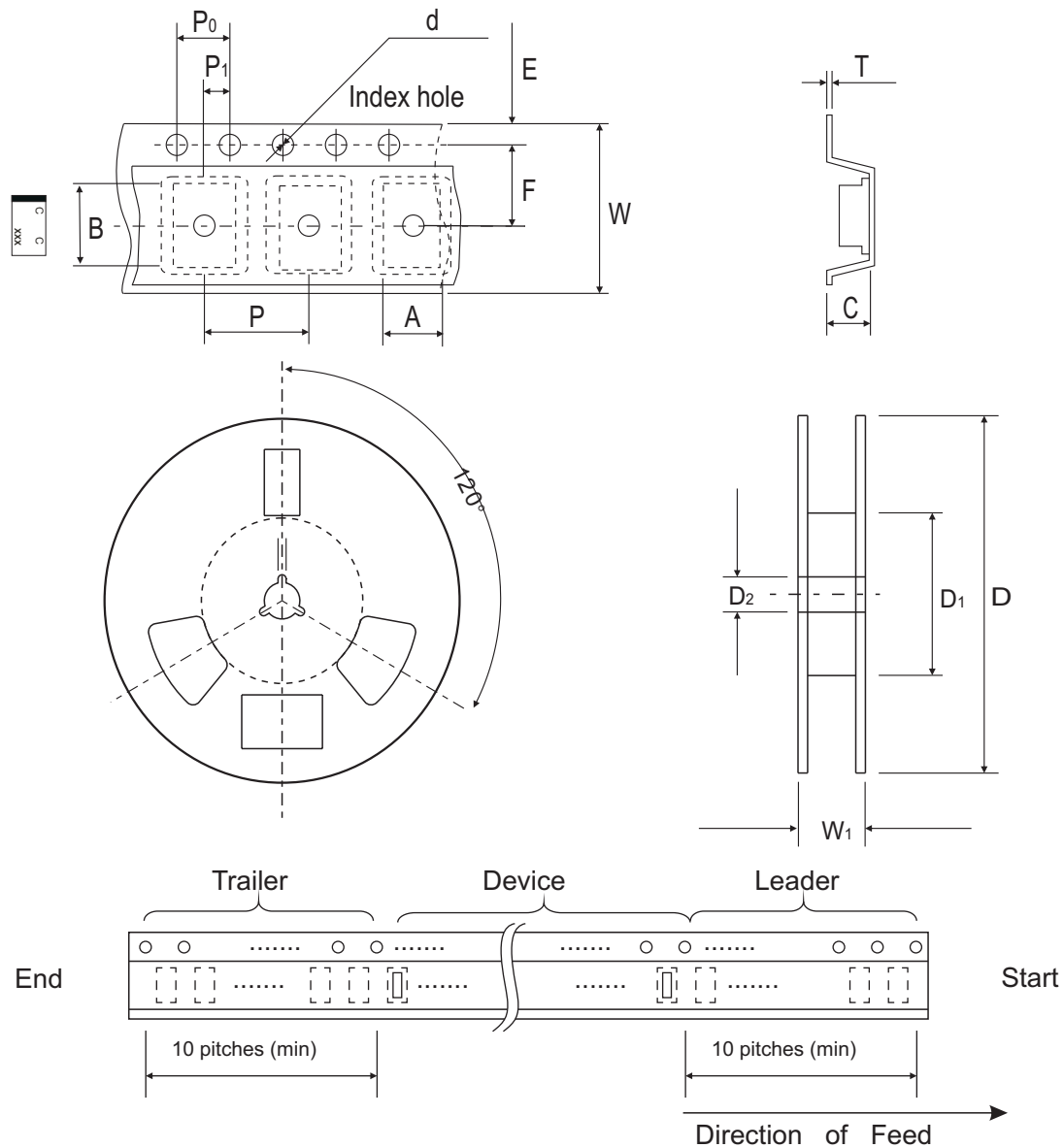
## Electrical Characteristics (TV15C5V0-HF Thru. TV15C441-HF)

| Part No.        | Absolute Maximum Rating (T <sub>A</sub> =25 °C) |                      |                      |                |                  | Electrical Characteristic (T <sub>A</sub> =25 °C) |                     |                                  |              |     |
|-----------------|-------------------------------------------------|----------------------|----------------------|----------------|------------------|---------------------------------------------------|---------------------|----------------------------------|--------------|-----|
|                 | V <sub>RWM</sub>                                | V <sub>BR</sub> Min. | V <sub>BR</sub> Max. | I <sub>T</sub> | I <sub>FSM</sub> | Max V <sub>C</sub>                                |                     | I <sub>R</sub> @V <sub>RWM</sub> | Marking Code |     |
|                 | (V)                                             | (V)                  | (V)                  | (mA)           | (A)@8.3mS        | (V)                                               | I <sub>PP</sub> (A) | (uA)                             | UNI          | BI  |
| TV15C161K(B)-HF | 160.0                                           | 178.00               | 218.00               | 1              | 200              | 287.0                                             | 5.23                | 5                                | GHN          | BHN |
| TV15C161J(B)-HF | 160.0                                           | 178.00               | 197.00               | 1              | 200              | 259.0                                             | 5.79                | 5                                | GHP          | BHP |
| TV15C171K(B)-HF | 170.0                                           | 189.00               | 231.00               | 1              | 200              | 304.0                                             | 4.93                | 5                                | GHQ          | BHQ |
| TV15C171J(B)-HF | 170.0                                           | 189.00               | 209.00               | 1              | 200              | 275.0                                             | 5.45                | 5                                | GHR          | BHR |
| TV15C181K(B)-HF | 180.0                                           | 200.16               | 244.80               | 1              | 200              | 322.2                                             | 4.66                | 5                                | GHS          | BHS |
| TV15C181J(B)-HF | 180.0                                           | 200.00               | 220.00               | 1              | 200              | 291.6                                             | 5.14                | 5                                | GHT          | BHT |
| TV15C191K(B)-HF | 190.0                                           | 211.28               | 258.40               | 1              | 200              | 340.1                                             | 4.41                | 5                                | GHU          | BHU |
| TV15C191J(B)-HF | 190.0                                           | 211.00               | 232.00               | 1              | 200              | 307.8                                             | 4.87                | 5                                | GHV          | BHV |
| TV15C201J(B)-HF | 200.0                                           | 224.00               | 247.00               | 1              | 200              | 324.0                                             | 4.60                | 5                                | GHW          | BHW |
| TV15C221J(B)-HF | 220.0                                           | 246.00               | 272.00               | 1              | 200              | 356.0                                             | 4.20                | 5                                | GHX          | BHX |
| TV15C251J(B)-HF | 250.0                                           | 279.00               | 309.00               | 1              | 200              | 405.0                                             | 3.70                | 5                                | GHZ          | BHZ |
| TV15C301J(B)-HF | 300.0                                           | 335.00               | 371.00               | 1              | 200              | 486.0                                             | 3.10                | 5                                | GJE          | BJE |
| TV15C351J(B)-HF | 350.0                                           | 391.00               | 432.00               | 1              | 200              | 567.0                                             | 2.60                | 5                                | GJG          | BJG |
| TV15C401J(B)-HF | 400.0                                           | 447.00               | 494.00               | 1              | 200              | 648.0                                             | 2.30                | 5                                | GJK          | BJK |
| TV15C441J(B)-HF | 440.0                                           | 492.00               | 543.00               | 1              | 200              | 713.0                                             | 2.10                | 5                                | GJM          | BJM |

Note:

- 1) Suffix K denotes 10% tolerance devices, suffix J denotes 5% tolerance devices.
- 2) Suffix B after part number to specify Bi-directional devices.
- 3) For Bi-Directional devices having V<sub>R</sub> of 10 volts and under, the I<sub>R</sub> limit is double.

## Reel Taping Specification



|                | SYMBOL | A                 | B                 | C           | d                   | D     | D1         | D2                |
|----------------|--------|-------------------|-------------------|-------------|---------------------|-------|------------|-------------------|
| DO-214AB (SMC) | (mm)   | $6.05 \pm 0.10$   | $8.31 \pm 0.10$   | 3.29 (max)  | $1.55 \pm 0.10-0.0$ | 330   | 50.0 MIN.  | $13.0 \pm 0.20$   |
|                | (inch) | $0.256 \pm 0.004$ | $0.327 \pm 0.004$ | 0.130 (max) | $0.061 \pm 0.004$   | 13.00 | 1.969 MIN. | $0.512 \pm 0.008$ |

|                | SYMBOL | E                 | F                 | P                 | P0                | P1                | W                 | W1         |
|----------------|--------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| DO-214AB (SMC) | (mm)   | $1.75 \pm 0.10$   | $7.50 \pm 0.10$   | $8.00 \pm 0.10$   | $4.00 \pm 0.10$   | $2.00 \pm 1.00$   | $16.0 \pm 0.30$   | 22.4 MAX.  |
|                | (inch) | $0.069 \pm 0.004$ | $0.295 \pm 0.004$ | $0.315 \pm 0.004$ | $0.157 \pm 0.004$ | $0.079 \pm 0.040$ | $0.630 \pm 0.012$ | 0.882 MAX. |

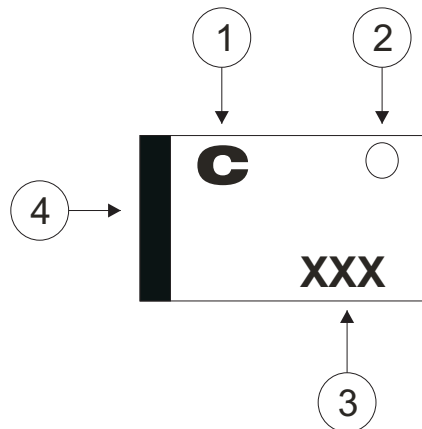
## Marking Code

1. C: COMCHIP
2. O: Package

|   |     |
|---|-----|
| ○ | PKG |
| A | SMA |
| B | SMB |
| C | SMC |

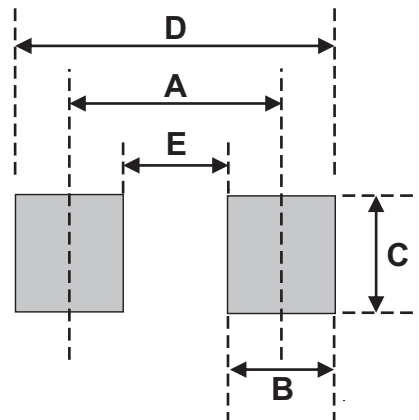
3. XXX: Marking code(see Page.3~5)

4. : Cathod Band



## Suggested PAD Layout

| SIZE | DO-214AB(SMC) |        |
|------|---------------|--------|
|      | (mm)          | (inch) |
| A    | 6.20          | 0.244  |
| B    | 1.60          | 0.063  |
| C    | 4.80          | 0.189  |
| D    | 7.80          | 0.307  |
| E    | 4.60          | 0.181  |



## Standard Package

| Case Type      | Qty per Reel | Reel Size |
|----------------|--------------|-----------|
|                | (Pcs)        | (inch)    |
| DO-214AB (SMC) | 3000         | 13        |