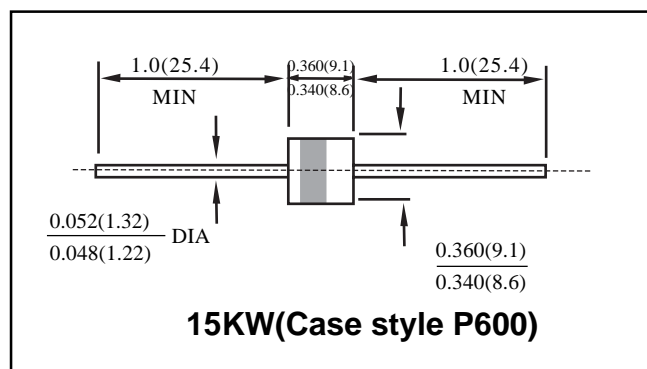


# 15KW SERIES

## GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE-17 TO 280 Volts

15000 Watt Peak Pulse Power



### FEATURES

- Plastic package
- Glass passivated junction
- 15000W peak pulse power capability on 10/1000  $\mu$ s wave from
- Excellent clamping capability
- Repetition rate(duty cycle):0.05%?
- Low incremental surge resistance
- Fast response time: typically less than 1.0ps from 0 Volts to BV ,Bidirectional less than 10ns.
- High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length, 5lbs., (2.3kg) tension

### MECHANICAL DATA

Case: Moded plastic over glass passivated junction  
 Terminal: Plated Axial leads, solderable per MIL-STD-750, Method 2026  
 Polarity: Color band denotes positive end (cathode) except Bipolar  
 Mounting Position: Any  
 Weight: 0.07 ounce, 2.5 grams

### DEVICES FOR BIPOLAR APPLICATION

For Bidirectional use C or CA Suffix for types 15KPA17 thru types 15KPA280 (e.g. 15KPA17C, 15KPA280CA)  
 Electrical characteristics apply in both directions

### MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| RATING  | SYMBOL         | VALUE            | UNITS |
|---|----------------|------------------|-------|
| Peak Pulse Power Dissipation on 10/1000 $\mu$ s waveform (Note 1, FIG.1)                          | $P_{PPM}$      | Minimum<br>15000 | Watts |
| Peak Pulse Current of on 10/1000 $\mu$ s waveform (Note 1, FIG.3)                                 | $I_{PPM}$      | SEE TABLE 1      | Amps  |
| Steady State Power Dissipation at $T_L = 75^\circ\text{C}$ ?, Lead lengths.375", (9.5mm) (Note 2) | $P_{M(AV)}$    | 8                | Watts |
| Peak Forward Surge Current, 1/20 second / 25°C (JEDEC Method)?                                    | $I_{FSM}$      | 100              | Amps  |
| Operating junction and Storage Temperature Range  | $T_J, T_{STG}$ | -55 to +<br>175  | °C    |

**15KW SERIES**

| 15KW PARTNUMBER |            | REVERSE STAND-OFF VOLTAGE $V_{RWM}(V)$ | BREAKDOWN VOLTAGE MIN. @ $I_T$ $V_{BR}(V)$ | BREAKDOWN VOLTAGE MAX. @ $I_T$ $V_{BR}(V)$ | TEST CURRENT $I_T$ (mA) | REVERSE LEAKAGE @ $V_{RWM}$ $I_R(\mu A)$ | PEAK PULSE CURRENT $I_{PP}(A)$ | MAXIMUM CLAMPING VOLTAGE @ $I_{PP}$ $V_C(V)$ |
|-----------------|------------|--|--|--|-------------------------|--|--------------------------------|--|
| UNI-POLAR       | BI-POLAR   |  |  |  |                         |  |                                |  |
| 15KPA17A        | 15KPA17CA  | 17                                     | 18.9                                       | 20.90                                      | 50                      | 5000                                     | 512                            | 29.3   |
| 15KPA18A        | 15KPA18CA  | 18                                     | 20.0                                       | 22.00                                      | 50                      | 5000                                     | 485                            | 30.9   |
| 15KPA20A        | 15KPA20CA  | 20                                     | 22.2                                       | 24.50                                      | 20                      | 1500                                     | 437                            | 34.3   |
| 15KPA22A        | 15KPA22CA  | 22                                     | 24.4                                       | 26.90                                      | 10                      | 500                                      | 404                            | 37.1   |
| 15KPA24A        | 15KPA24CA  | 24                                     | 26.7                                       | 29.50                                      | 5                       | 150                                      | 369                            | 40.5   |
| 15KPA26A        | 15KPA26CA  | 26                                     | 28.9                                       | 31.90                                      | 5                       | 50                                       | 347                            | 44.0   |
| 15KPA28A        | 15KPA28CA  | 28                                     | 31.1                                       | 34.40                                      | 5                       | 25                                       | 316                            | 47.5   |
| 15KPA30A        | 15KPA30CA  | 30                                     | 33.3                                       | 36.80                                      | 5                       | 15                                       | 296                            | 50.7   |
| 15KPA33A        | 15KPA33CA  | 33                                     | 36.7                                       | 40.60                                      | 5                       | 10                                       | 274                            | 54.8   |
| 15KPA36A        | 15KPA36CA  | 36                                     | 40.0                                       | 44.20                                      | 5                       | 10                                       | 251                            | 59.7   |
| 15KPA40A        | 15KPA40CA  | 40                                     | 44.4                                       | 49.10                                      | 5                       | 10                                       | 228                            | 65.8   |
| 15KPA43A        | 15KPA43CA  | 43                                     | 47.8                                       | 52.80                                      | 5                       | 10                                       | 215                            | 69.7   |
| 15KPA45A        | 15KPA45CA  | 45                                     | 50.0                                       | 55.30                                      | 5                       | 10                                       | 205                            | 73.0   |
| 15KPA48A        | 15KPA48CA  | 48                                     | 53.3                                       | 58.90                                      | 5                       | 10                                       | 193                            | 77.7   |
| 15KPA51A        | 15KPA51CA  | 51                                     | 56.7                                       | 62.70                                      | 5                       | 10                                       | 181                            | 82.8   |
| 15KPA54A        | 15KPA54CA  | 54                                     | 60.0                                       | 66.30                                      | 5                       | 10                                       | 171                            | 87.5   |
| 15KPA58A        | 15KPA58CA  | 58                                     | 64.4                                       | 71.20                                      | 5                       | 10                                       | 160                            | 94.0   |
| 15KPA60A        | 15KPA60CA  | 60                                     | 66.7                                       | 73.70                                      | 5                       | 10                                       | 154                            | 97.3   |
| 15KPA64A        | 15KPA64CA  | 64                                     | 71.1                                       | 78.60                                      | 5                       | 10                                       | 144                            | 104.0  |
| 15KPA70A        | 15KPA70CA  | 70                                     | 77.8                                       | 86.00                                      | 5                       | 10                                       | 132                            | 114.0  |
| 15KPA75A        | 15KPA75CA  | 75                                     | 83.3                                       | 92.10                                      | 5                       | 10                                       | 123                            | 122.0  |
| 15KPA78A        | 15KPA78CA  | 78                                     | 86.7                                       | 93.80                                      | 5                       | 10                                       | 119                            | 126.0  |
| 15KPA85A        | 15KPA85CA  | 85                                     | 94.4                                       | 104.0                                      | 5                       | 10                                       | 109                            | 137.0  |
| 15KPA90A        | 15KPA90CA  | 90                                     | 100.0                                      | 111.0                                      | 5                       | 10                                       | 103                            | 146.0  |
| 15KPA100A       | 15KPA100CA | 100                                    | 111.0                                      | 123.0                                      | 5                       | 10                                       | 93                             | 162.0  |
| 15KPA110A       | 15KPA110CA | 110                                    | 122.0                                      | 135.0                                      | 5                       | 10                                       | 84                             | 178.0  |
| 15KPA120A       | 15KPA120CA | 120                                    | 133.0                                      | 147.0                                      | 5                       | 10                                       | 78                             | 193.0  |
| 15KPA130A       | 15KPA130CA | 130                                    | 144.0                                      | 159.0                                      | 5                       | 10                                       | 72                             | 209.0  |
| 15KPA150A       | 15KPA150CA | 150                                    | 167.0                                      | 185.0                                      | 5                       | 10                                       | 62                             | 243.0  |
| 15KPA160A       | 15KPA160CA | 160                                    | 178.0                                      | 197.0                                      | 5                       | 10                                       | 58                             | 259.0  |
| 15KPA170A       | 15KPA170CA | 170                                    | 189.0                                      | 209.0                                      | 5                       | 10                                       | 55                             | 275.0  |
| 15KPA180A       | 15KPA180CA | 180                                    | 200.0                                      | 233.0                                      | 5                       | 10                                       | 52                             | 291.0  |
| 15KPA200A       | 15KPA200CA | 200                                    | 222.0                                      | 245.0                                      | 5                       | 10                                       | 47                             | 322.0  |
| 15KPA220A       | 15KPA220CA | 220                                    | 245.0                                      | 269.0                                      | 5                       | 10                                       | 42                             | 356.0  |
| 15KPA240A       | 15KPA240CA | 240                                    | 267.0                                      | 295.0                                      | 5                       | 10                                       | 39                             | 388.0  |
| 15KPA260A       | 15KPA260CA | 260                                    | 289.0                                      | 319.0                                      | 5                       | 10                                       | 36                             | 419.0  |
| 15KPA280A       | 15KPA280CA | 280                                    | 311.0                                      | 344.0                                      | 5                       | 10                                       | 33                             | 452.0  |

For bidirectional type having  $V_{RWM}$  of 30 volts and less, the  $I_R$  limit is double.

For parts without A, the  $V_{BR}$  is  $\pm 10\%$