

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

STAND-OFF VOLTAGE - 17 TO 280 Volts

15000 Watt Peak Pulse Power

" * " 标注为常用型号

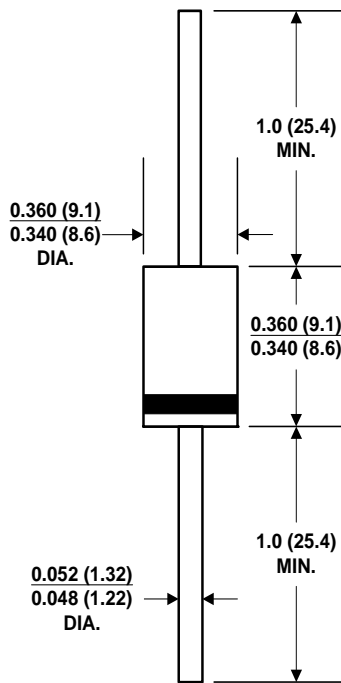
" * " Stand for commonly used models

| 15KPA PART NUMBER | | REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$ | BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN. @ I_T | BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX. @ I_T | TEST CURRENT I_T (mA) | PEAK PULSE CURRENT I_{pp} (A) | REVERSE LEAKAGE @ V_{RWM} $I_R(\mu$ A) | MAXIMUM CLAMPING VOLTAGE @ I_{PP} V_C (V) |
|----------------------|------------|--|---|---|-------------------------------|--|---|--|
| UNI-POLAR | BI-POLAR | | | | | | | |
| 15KPA17A | 15KPA17CA | 17 | 18.99 | 20.79 | 50 | 515.4 | 5000 | 29.3 |
| 15KPA18A | 15KPA18CA | 18 | 20.11 | 22.01 | 50 | 488.7 | 5000 | 30.9 |
| 15KPA20A | 15KPA20CA | 20 | 22.34 | 24.46 | 20 | 440.2 | 1500 | 34.3 |
| 15KPA22A | 15KPA22CA | 22 | 24.57 | 26.91 | 10 | 407.0 | 500 | 37.1 |
| 15KPA24A | 15KPA24CA | 24 | 26.81 | 29.35 | 5 | 371.0 | 150 | 40.7 |
| 15KPA26A | 15KPA26CA | 26 | 29.04 | 31.80 | 5 | 343.2 | 50 | 44.0 |
| 15KPA28A | 15KPA28CA | 28 | 31.28 | 34.24 | 5 | 317.9 | 25 | 47.5 |
| 15KPA30A | 15KPA30CA | 30 | 33.51 | 36.69 | 5 | 297.8 | 15 | 50.7 |
| 15KPA33A | *15KPA33CA | 33 | 36.9 | 40.4 | 5 | 276.1 | 2 | 54.7 |
| 15KPA36A | 15KPA36CA | 36 | 40.2 | 44.0 | 5 | 252.5 | 2 | 59.8 |
| 15KPA40A | 15KPA40CA | 40 | 44.7 | 48.9 | 5 | 229.5 | 2 | 65.8 |
| 15KPA43A | 15KPA43CA | 43 | 48.0 | 52.6 | 5 | 216.3 | 2 | 69.8 |
| 15KPA45A | 15KPA45CA | 45 | 50.3 | 55.0 | 5 | 207.4 | 2 | 72.8 |
| 15KPA48A | 15KPA48CA | 48 | 53.6 | 58.7 | 5 | 194.3 | 2 | 77.7 |
| 15KPA51A | 15KPA51CA | 51 | 57.0 | 62.4 | 5 | 182.1 | 2 | 82.9 |
| 15KPA54A | 15KPA54CA | 54 | 60.3 | 66.0 | 5 | 172.2 | 2 | 87.7 |
| 15KPA58A | 15KPA58CA | 58 | 64.8 | 70.9 | 5 | 161.0 | 2 | 93.8 |
| 15KPA60A | 15KPA60CA | 60 | 67.0 | 73.4 | 5 | 155.0 | 2 | 97.4 |
| 15KPA64A | 15KPA64CA | 64 | 71.5 | 78.3 | 5 | 144.9 | 2 | 104.2 |
| 15KPA70A | 15KPA70CA | 70 | 78.2 | 85.6 | 5 | 132.9 | 2 | 113.6 |
| 15KPA75A | 15KPA75CA | 75 | 83.8 | 91.7 | 5 | 123.8 | 2 | 122.0 |
| 15KPA78A | 15KPA78CA | 78 | 87.1 | 95.4 | 5 | 119.7 | 2 | 126.1 |
| 15KPA85A | 15KPA85CA | 85 | 94.9 | 104.0 | 5 | 109.7 | 2 | 137.6 |
| 15KPA90A | 15KPA90CA | 90 | 100.5 | 110.1 | 5 | 103.7 | 2 | 145.6 |
| 15KPA100A | 15KPA100CA | 100 | 111.7 | 122.3 | 5 | 93.6 | 2 | 161.3 |
| 15KPA110A | 15KPA110CA | 110 | 122.9 | 134.5 | 5 | 84.5 | 2 | 178.6 |
| 15KPA120A | 15KPA120CA | 120 | 134.0 | 146.8 | 5 | 78.5 | 2 | 192.3 |
| 15KPA130A | 15KPA130CA | 130 | 145.2 | 159.0 | 5 | 72.5 | 2 | 208.3 |
| 15KPA150A | 15KPA150CA | 150 | 167.6 | 183.5 | 5 | 62.4 | 2 | 241.9 |
| 15KPA160A | 15KPA160CA | 160 | 178.7 | 195.7 | 5 | 58.4 | 2 | 258.6 |
| 15KPA170A | 15KPA170CA | 170 | 189.9 | 207.9 | 5 | 55.4 | 2 | 272.7 |
| 15KPA180A | 15KPA180CA | 180 | 201.1 | 220.1 | 5 | 52.3 | 2 | 288.5 |
| 15KPA200A | 15KPA200CA | 200 | 223.4 | 244.6 | 5 | 47.3 | 2 | 319.1 |
| 15KPA220A | 15KPA220CA | 220 | 245.7 | 269.1 | 5 | 35.2 | 2 | 428.6 |
| 15KPA240A | 15KPA240CA | 240 | 268.1 | 293.5 | 5 | 39.3 | 2 | 384.6 |
| 15KPA260A | 15KPA260CA | 260 | 290.4 | 318.0 | 5 | 36.2 | 2 | 416.7 |
| 15KPA280A | 15KPA280CA | 280 | 312.8 | 342.4 | 5 | 33.2 | 2 | 454.5 |

For bidirectional type having V_{RWM} of 30 volts and less, the IR limit is double.
For parts with A, the V_{BR} is $\pm 5\%$

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR
STAND-OFF VOLTAGE-17 TO 280 Volts
15000 Watt Peak Pulse Power

Case Style P600



Dimensions in inches and (millimeters)

FEATURES

- ⊙ Plastic package
- ⊙ Glass passivated junction
- ⊙ 15000W peak pulse power capability on 10/1000us waveform
- ⊙ 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 min.
- ⊙ High temperature soldering guaranteed: 265°C/10 seconds/.375", (9.5mm) lead length,51bs.(2.3kg) tension
- ⊙ Pb-free plated

MECHANICAL DATA

- Case:** Molded plastic over glass passivated junction
- Terminal:** 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 10/1000μs waveform (Note 1,FIG.1) | P _{PPM} | Minimum 15000 | Watts |
| Peak Pulse Current of on 10/1000μs waveform (Note 1,FIG.3) | I _{PPM} | SEE TABLE 1 | Amps |
| Steady State Power Dissipation at T _L = 75°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} | 400 | Amps |
| Operating junction and Storage Temperature Range | T _J , T _{STG} | -55 to + 175 | °C |

RATINGS AND CHARACTERISTIC CURVES

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

Figure 1 - Peak Pulse Power Rating Curve

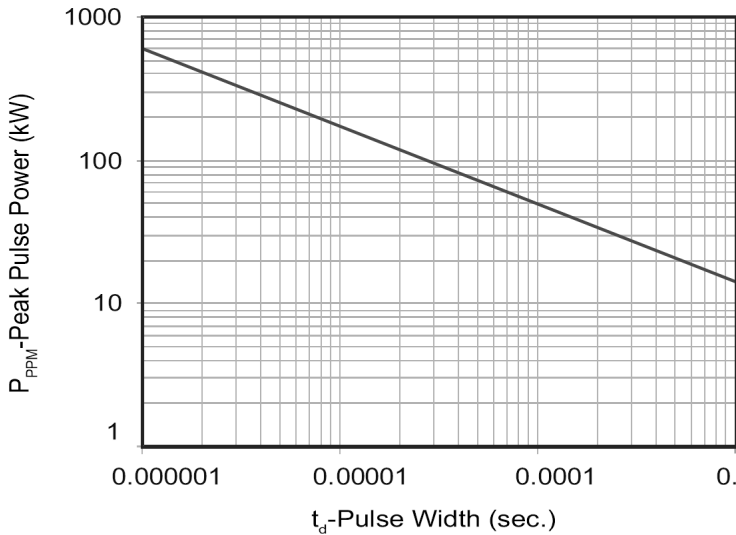


Figure 2 - Pulse Derating Curve

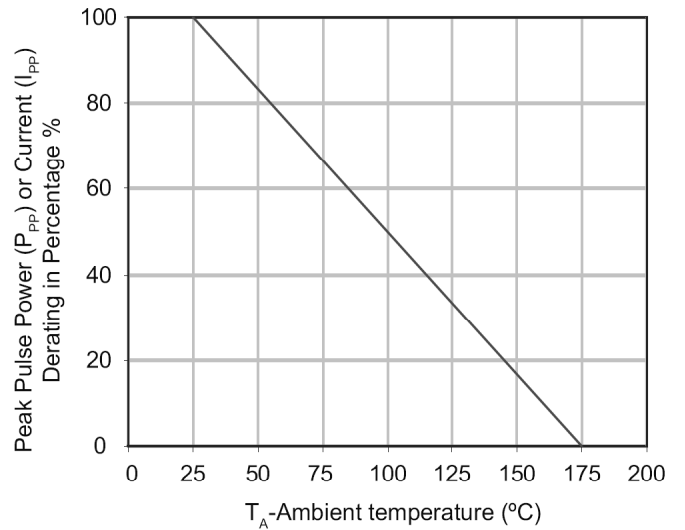


Figure 3 - Pulse Waveform

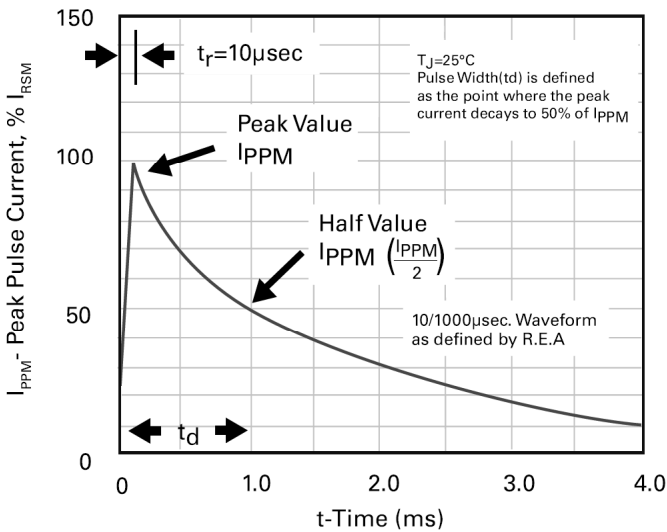


Figure 4 - Typical Junction Capacitance

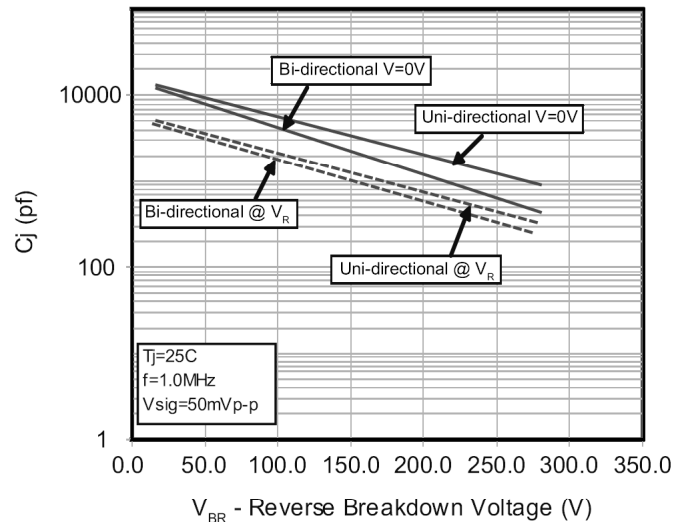


Figure 5 - Steady State Power Derating Curve

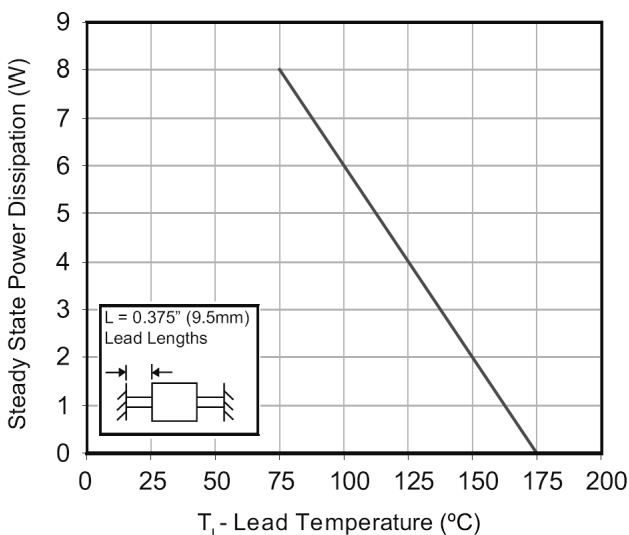


Figure 6 - Maximum Non-Repetitive Peak Forward Surge Current

