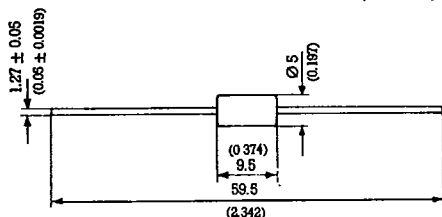


Bidirectional Transient Suppressor Diodes

Dimensions in mm. (inches)

DO-27A
(Plastic)


Mounting instructions

1. Min. distance from body to soldering point, 4 mm.
2. Max. solder temperature, 300°C.
3. Max. soldering time, 3,5 sec.
4. Do not bend lead at a point closer than 3 mm. to the body.

Peak Pulse
Power Rating
At 1ms. Exp.

700 W

Reverse
stand-off
Voltage

9 + 110 V

- Low Capacitance AC signal protection
- Molded case
- Diffused junction
- The plastic material carries U/L recognition 94V-0
- Terminals: Axial leads

Maximum Ratings, according to IEC publication No. 134

| | | |
|-----------|---|--------------|
| P_{pp} | Peak pulse power for 1 msec. exponential pulse | 700 W |
| I_{FSM} | Non repetitive surge peak forward current ($t = 10$ msec.) | — |
| T_j | Junction temperature | 175°C |
| T_{stg} | Storage temperature | - 65 + 175°C |

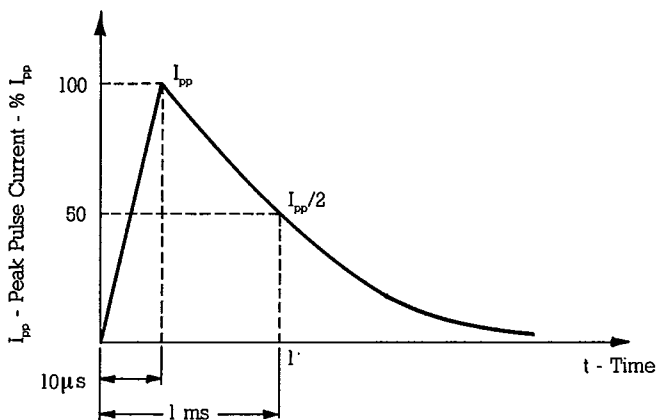
Electrical Characteristics at $T_{amb} = 25^\circ\text{C}$

| | | |
|------------|---|--------|
| V_F | Max. Forward voltage drop at $I_F =$ | — |
| R_{thja} | Max. Thermal resistance ($l = 10$ mm.) | 30°C/W |

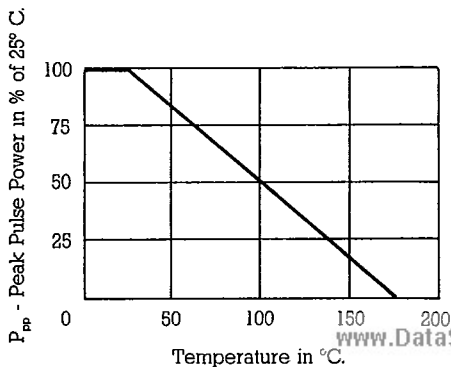
T-11-23

| Type | Maximum Reverse Leakage Current I_{RM} at V_{RM} | | Breakdown Voltage $V_{(BR)}$ (V) | | | at I_R (mA) | Máx. Clamping Voltage $V_{(CL)}$ at I_{CP} max. 1 ms. Expo. | |
|---------------|---|------|-------------------------------------|------|------|------------------|---|-----|
| | (μA) | (V) | Min. | Nom. | Max. | | (V) | (A) |
| Bidirectional | | | | | | | | |
| ZZ- 12 | 5 | 9 | 10 | 12 | 14 | 5 | 18 | 40 |
| ZZ- 16 | 5 | 10 | 13 | 16 | 19 | 5 | 25 | 30 |
| ZZ- 22 | 5 | 13.2 | 18 | 22 | 26 | 5 | 33 | 21 |
| ZZ- 36 | 5 | 25 | 29.6 | 36 | 43.5 | 5 | 53 | 13 |
| ZZ- 62 | 5 | 42 | 50 | 62 | 75 | 5 | 90 | 8 |
| ZZ- 78 | 5 | 46 | 63 | 78 | 87 | 5 | 110 | 6.3 |
| ZZ- 91 | 5 | 54.6 | 76 | 91 | 106 | 5 | 132 | 5.3 |
| ZZ-110 | 5 | 66 | 92 | 110 | 128 | 5 | 162 | 4.3 |
| ZZ-160 | 5 | 110 | 130 | 160 | 200 | 5 | 235 | 3 |

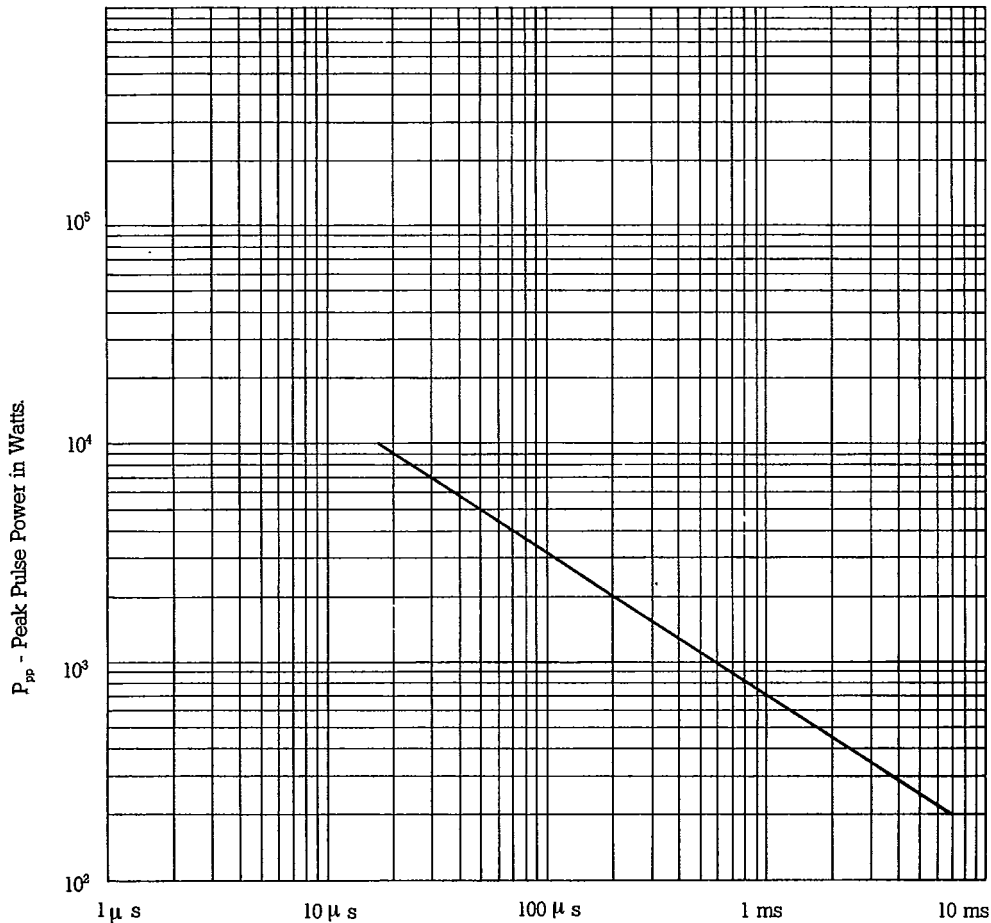
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Pulse wave form 10/1000

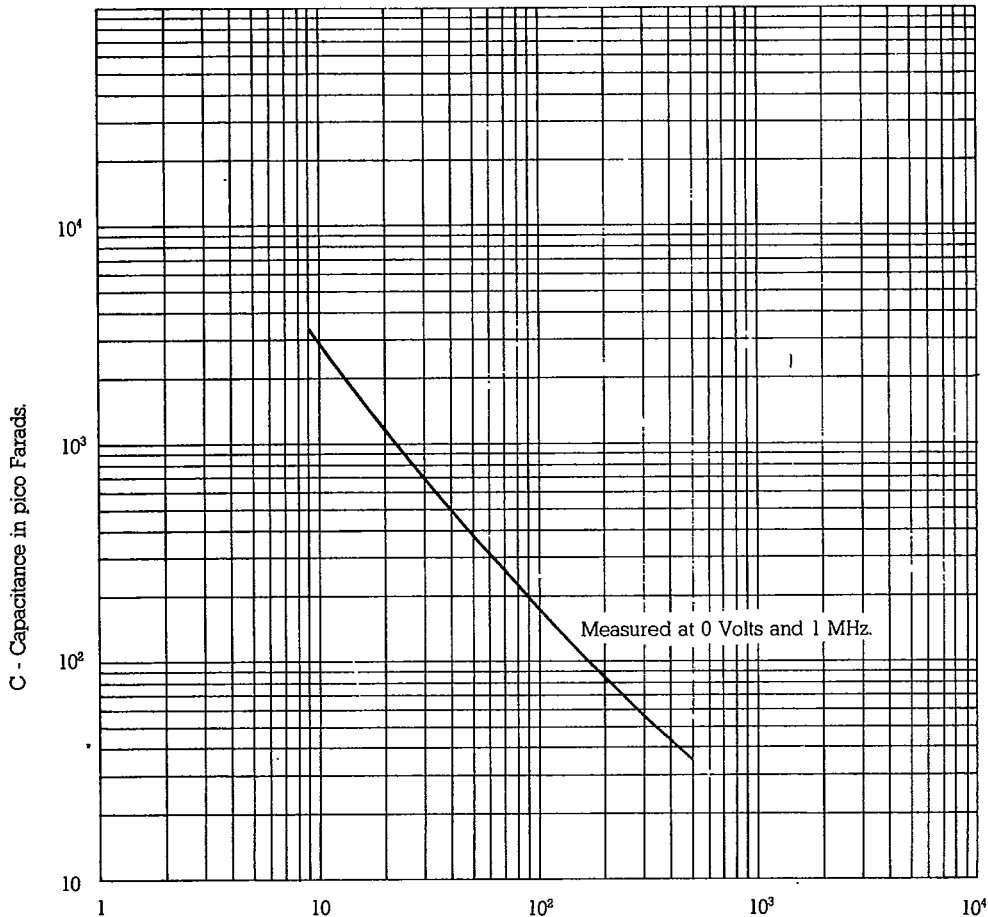


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Pulse time - t
Peak Pulse Power vs Pulse Time

T-11-23



V_{BR} - Break down voltage in Volts.
Typical Capacitance vs Break down voltage.



T-11-2.

