

YANGZHOU POSITIONING TECH CO.,LTD

**HIGH VOLTAGE DIODES IN PLASTIC PACKAGE**

Series Product Introduction



# YZPST-HV 5-10mA small current series diodes

## Product Characteristics

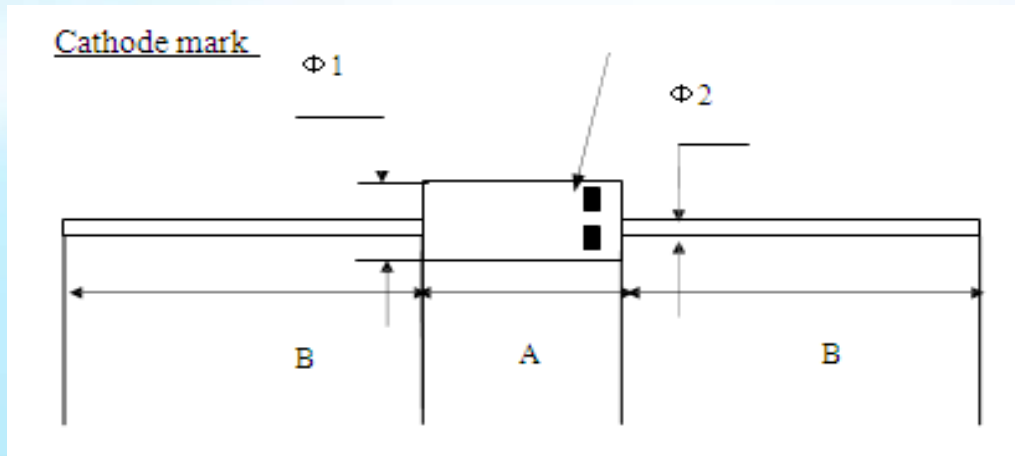
1. High reliability
2. Unique surge characteristics
3. Fast recovery time : 80nS (Trr)
4. Low forward voltage drop (Vf)
5. Forward rectified current : 5~10mA, withstand voltage: 6-20kV
6. Junction temperature : -40~+120°C

## Application

Copying machine、 Air cleaner、 Laser、 Cathode ray monitor

# YZPST-HV 5-10mA small current series diodes

## Dimensions (mm)



| Type            | A   | B(min) | $\Phi 1$ | $\Phi 2$ |
|-----------------|-----|--------|----------|----------|
| JB04,JB08,2CL71 | 5   | 24     | 2        | 0.6      |
| 2CL69A,2CL71A   | 6.5 |        | 2.5      | 0.6      |
| 2CL69           | 8   |        | 3        | 0.6      |
| 2CL73,2CL74     | 10  |        | 3        | 0.6      |

# YZPST-HV 5-10mA small current series diodes

## Specifications

| Model      |        | The Corresponding Fuji Product Model<br>$V_{RRM}$ KV | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>$V_{FM}$ V, IFM=10mA | Maximum DC Reverse Current<br>$I_R$ $\mu$ A |     | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|------------|--------|------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------|-----|----------------------------------------------|
| YZPST-HV04 | Jb04   | -                                                    | 4                                               | 10.0                                          | 0.5                                          | 10.0                                                 | 2.0                                         | 5.0 | 80                                           |
|            | 2CL69A |                                                      | 4                                               | 10.0                                          | 0.5                                          | 10.0                                                 | 2.0                                         | 5.0 | 80                                           |
|            | 2CL69  | ESJA54-04                                            | 4                                               | 10.0                                          | 0.5                                          | 10.0                                                 | 2.0                                         | 5.0 | 80                                           |
| YZPST-HV08 | JB04   | -                                                    | 8                                               | 10.0                                          | 0.5                                          | 13.0                                                 | 2.0                                         | 5.0 | 80                                           |
|            | 2CL71A | -                                                    | 8                                               | 10.0                                          | 0.5                                          | 13.0                                                 | 2.0                                         | 5.0 | 80                                           |
|            | 2CL71  | ESJA54-08                                            | 8                                               | 10.0                                          | 0.5                                          | 13.0                                                 | 2.0                                         | 5.0 | 80                                           |

# YZPST-HV 5-10mA small current series diodes

## Specifications

| Model      |       | The Corresponding Fuji Product Model<br>$V_{RRM}$ KV | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>$V_{FM}$ V, IFM=10mA | Maximum DC Reverse Current<br>$I_R$ $\mu$ A |     | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|------------|-------|------------------------------------------------------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------|-----|----------------------------------------------|
| YZPST-HV12 | 2CL73 | ESJA52-12                                            | 12                                              | 5.0                                           | 0.5                                          | 20.0                                                 | 2.0                                         | 5.0 | 80                                           |
| YZPST-HV14 | 2CL74 | ESJA52-14                                            | 14                                              | 5.0                                           | 0.5                                          | 22.0                                                 | 2.0                                         | 5.0 | 80                                           |

# YZPST-HV 100-400mA series diodes

## Product Characteristics

1. High junction temperature :  $-40^{\circ}\text{C}$ - $150^{\circ}\text{C}$
2. Low forward conduction voltage and small leakage current
3. Avalanche voltagebreakdown protection
4. Reverse recovery time ( $T_{rr}$ ): 70-100nS
5. Excellent properties against HV surge impact
6. Axial leading wires which are weldable
7. Epoxy package with anti-corrosion properties on surface

# YZPST-HV 100-400mA series diodes

## Application

High frequency and high voltage power supply rectifier;

Industrial microwave power supplies;

HF X ray source;

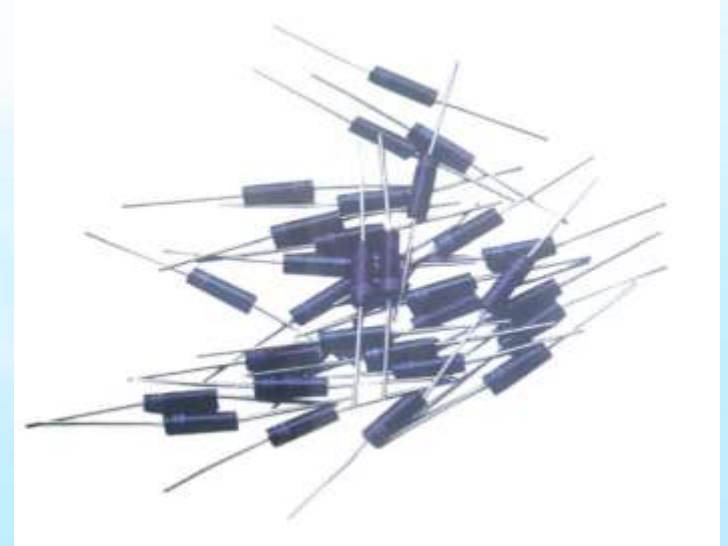
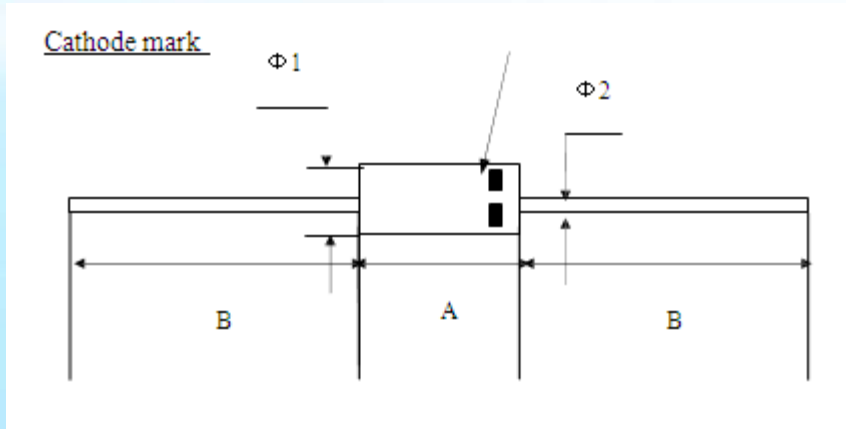
Laser power supply;

Voltage multiplying circuits

Rectification of power supplies for other electronic devices

# YZPST-HV 100-400mA series diodes

## Dimensions (mm)



| Type                 | A  | B(min) | $\Phi 1$ | $\Phi 2$ |
|----------------------|----|--------|----------|----------|
| 2CL2FK,2CL2FL,2CL2FM | 15 | 24     | 4.3      | 1.0      |
| 37-08,37-08F,37-10   | 10 |        | 3        | 0.6      |
| 37-20,37-20F         | 15 |        | 4.3      | 1.0      |

# YZPST-HV 100-400mA series diodes

## Specifications

| Model    |        | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>$V_{FM}$ V, | Maximum DC Reverse Current<br>$I_R$ $\mu$ A |          | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|----------|--------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------|----------|----------------------------------------------|
|          |        |                                                 |                                               |                                              |                                             | Ta=25°C                                     | Ta=100°C |                                              |
| YZPST-HV | 2CL2FK | 10                                              | 100                                           | 10                                           | 22.0                                        | 2.0                                         | 15       | 100                                          |
|          | 2CL2FL | 15                                              | 100                                           | 10                                           | 26.0                                        | 2.0                                         | 15       | 100                                          |
|          | 2CL2FM | 20                                              | 100                                           | 10                                           | 35.0                                        | 2.0                                         | 15       | 100                                          |
|          | 37-08  | 8                                               | 400                                           | 30                                           | 18.0                                        | 5.0                                         | 50       | 80                                           |

# YZPST-HV 100-400mA series diodes

## Specifications

| Model    |        | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>$V_{FM}$ V, | Maximum DC Reverse Current<br>$I_R$ $\mu$ A |          | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|----------|--------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------|----------|----------------------------------------------|
|          |        |                                                 |                                               |                                              |                                             | Ta=25°C                                     | Ta=100°C |                                              |
| YZPST-HV | 37-08F | 8                                               | 400                                           | 30                                           | 18.0                                        | 5.0                                         | 50       | 70                                           |
|          | 37-10  | 10                                              | 350                                           | 20                                           | 20.0                                        | 5.0                                         | 50       | 80                                           |
|          | 37-20  | 20                                              | 200                                           | 35                                           | 35.0                                        | 5.0                                         | 50       | 100                                          |
|          | 37-20F | 20                                              | 200                                           | 35                                           | 35.0                                        | 5.0                                         | 50       | 70                                           |

# YZPST-HV high current series diodes

## Product Characteristics

1. High junction temperature:  $-40^{\circ}\text{C}$ - $150^{\circ}\text{C}$
2. Low forward voltage drop, and small current leakage
3. Avalanche breakdown protection
4. Reverse recovery time ( $T_{rr}$ ) : 40-150nS
5. Excellent properties against HV surge impact
6. Axial leading wires which are weldable
7. Epoxy package with anti-corrosion properties on surface

# YZPST-HV high current series diodes

## Application

The microwave high power rectifier;

Industrial microwave power supplies;

HF X ray source;

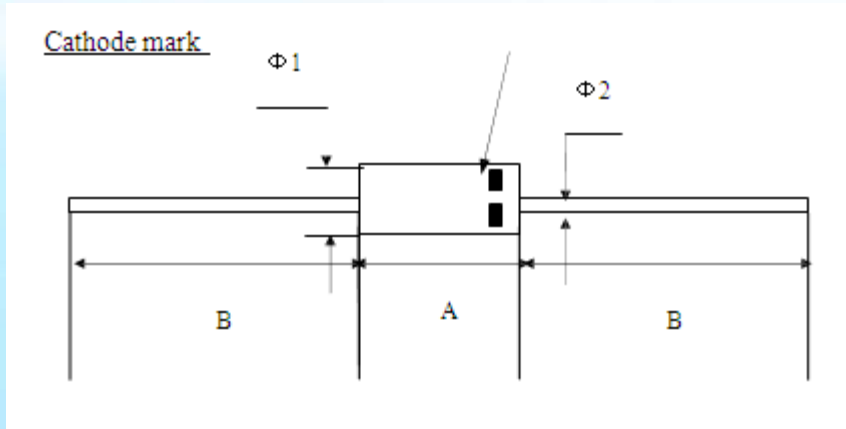
Laser power supply;

Voltage multiplying circuits

Rectification of power supplies for other electronic devices

# YZPST-HV high current series diodes

## Dimensions (mm)



| Type                           | A  | B(min) | $\Phi 1$ | $\Phi 2$ |
|--------------------------------|----|--------|----------|----------|
| 600S10,600S12,<br>YZPST-HV FOB | 22 | 20     | 7.5      | 1.2      |
| 104,106                        |    |        |          |          |

# YZPST-HV high current series diodes

## Specifications

| Model    |        | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>$V_{FM}$ V, | Maximum DC Reverse Current<br>$I_R$ $\mu$ A |          | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|----------|--------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------|----------|----------------------------------------------|
|          |        |                                                 |                                               |                                              |                                             | Ta=25°C                                     | Ta=100°C |                                              |
| YZPST-HV | 600S10 | 10                                              | 600                                           | 40                                           | 15.0                                        | 5.0                                         | 50       | -                                            |
|          | 600S12 | 12                                              | 600                                           | 40                                           | 18.0                                        | 5.0                                         | 50       | -                                            |
| YZPST-HV | FOB    | 9                                               | 500                                           | 40                                           | 13.8                                        | 5.0                                         | 50       | 40                                           |
| YZPST-HV | 104    | 12                                              | 350                                           | 30                                           | 15.0                                        | 5.0                                         | 50       | -                                            |
|          | 106    | 12                                              | 450                                           | 30                                           | 15.0                                        | 5.0                                         | 50       | -                                            |

# YZPST-HV HVR glass passivation chip series diodes

## Product Characteristics

1. High junction temperature:  $-60^{\circ}\text{C}$ - $175^{\circ}\text{C}$
2. Low forward voltage drop, and small current leakage
3. Avalanche breakdown protection
4. Reverse recovery time ( $T_{rr}$ ) less than 50nS
5. Excellent properties against HV surge impact
6. Axial leading wires which are weldable
7. Use glass blunt chip and epoxy package with anti-corrosion properties on surface

# YZPST-HV HVR glass passivation chip series diodes

## Application

High voltage rectifier of medical equipment system ;

Micro medical instrument

Cottrell process

power supply of laser

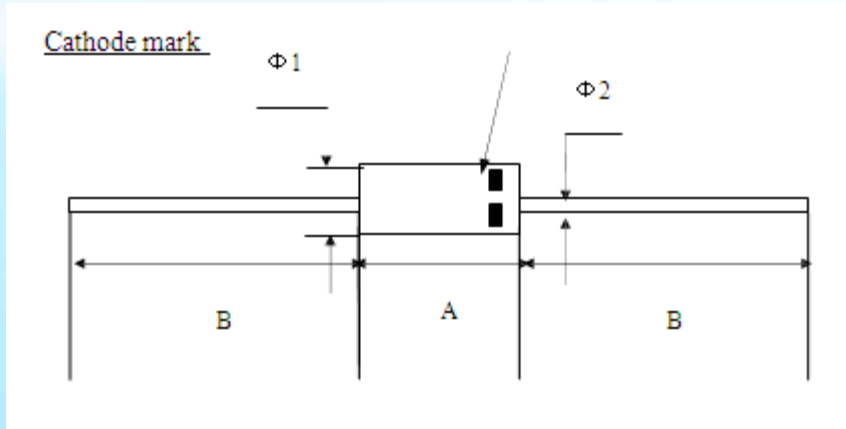
Voltage multiplying circuits

Rectification of power supplies for other electronic devices

Metal detector

# YZPST-HV HVR glass passivation chip series diodes

Dimensions (mm)



| Type       | A   | B(min) | $\Phi 1$ | $\Phi 2$ |
|------------|-----|--------|----------|----------|
| HVR series | 8.9 | 26.5   | 8.9      | 1.2      |

# YZPST-HV HVR glass passivation chip series diodes

## Specifications

| Model    |       | Repetitive Peak Reverse Voltage<br>$V_{RRM}$ KV | Average Forward Rectified Current<br>$I_O$ mA | Maximum Forward Surge Current<br>$I_{FSM}$ A | Maximum Peak Forward Voltage<br>$V_{FM}$ V, | Maximum DC Reverse Current<br>$I_R$ $\mu$ A |          | Maximum Reverse Recovery Time<br>$t_{rr}$ nS |
|----------|-------|-------------------------------------------------|-----------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------|----------|----------------------------------------------|
|          |       |                                                 |                                               |                                              |                                             | Ta=25°C                                     | Ta=100°C |                                              |
| YZPST-HV | HVRW3 | 3                                               | 2                                             | 60                                           | 5.0                                         | 50                                          | 500      | 150                                          |
|          | HVRW4 | 4                                               | 1.5                                           | 50                                           | 6.0                                         | 50                                          | 500      | 150                                          |
| YZPST-HV | HVRM3 | 3                                               | 3                                             | 60                                           | 4.0                                         | 50                                          | 500      | -                                            |
|          | HVRM4 | 4                                               | 2                                             | 50                                           | 5.0                                         | 50                                          | 500      | -                                            |

# YZPST-Special high-voltage diodes assembly

## Product Characteristics

- 1、 Compact structure and the wiring is convenient
- 2、 Anti instantaneous large current excellent impact property
- 3、 The reverse avalanche breakdown characteristic
- 4、 Can choose recovery time
- 5、 More dimensions choice
- 6、  $T_{rr}$  : 30ns-300ns
- 7、 Operating temperature:  $-40^{\circ}\text{C}$ - $+150^{\circ}\text{C}$
- 8、 Current range: 5mA-6A, voltage range: 5kV-300kV

# YZPST-Special high-voltage diodes assembly

## Application

Our company supply many kinds of power frequency, high frequency, snowslide, immersion oil, air, special type, lead type, semibridge system, Impact type, line type high-voltage silicon stack, Current range from 20mA, 200mA, 500mA, 1.0A, 2.0A to 10.0A, voltage range from 30KV to 500KV.



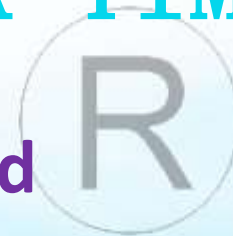
# YZPST-Special high-voltage diodes assembly

## Current range

|                            |                                       |                                   |      |      |       |
|----------------------------|---------------------------------------|-----------------------------------|------|------|-------|
| power<br>frequency         | 0.05A                                 | 0.1A                              | 0.2A | 0.5A | 1.0A  |
|                            | 1.5A                                  | 2.0A                              | 3.0A | 5.0A | 10.0A |
| high<br>frequency          | 0.02A                                 | 0.05A                             | 0.1A | 0.2A | 0.5A  |
|                            | 1.0A                                  | 2.0A                              | 3.0A | 5.0A | 10.0A |
| Line type<br>silicon stack | power<br>frequency<br><br>0.05A-10.0A | high frequency<br><br>0.05A-10.0A |      |      |       |

# THANK YOU FOR YOUR TIME !

- **Yangzhou Positioning Tech. Co., Ltd**



Add: Room 303 Weiheng Building, No. 184 Wangyue Rd, Yangzhou,  
Jiangsu, P.R.C 225007

Tel: +86-514-8778 2298, 8778 2296

FAX: +86-514-8778 2297, 8736 7519

E-mail : yzforever@163.net;

pst@pst888.com; info@yzpst.com

SKYPE ID : yzforever0313

WhatsApp: +86 1380 527 8321

www.pst888.com

