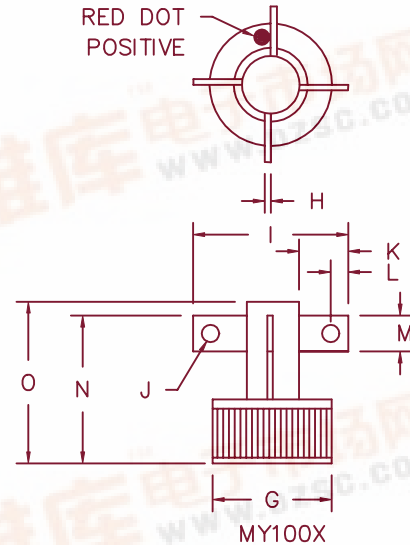
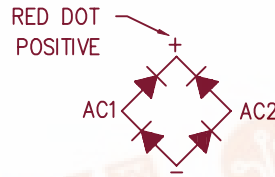
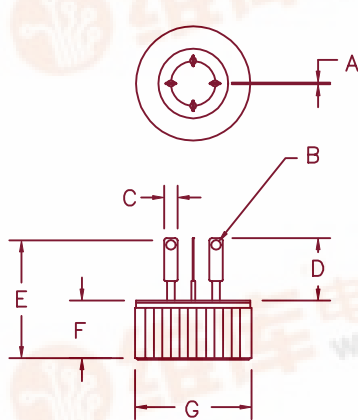
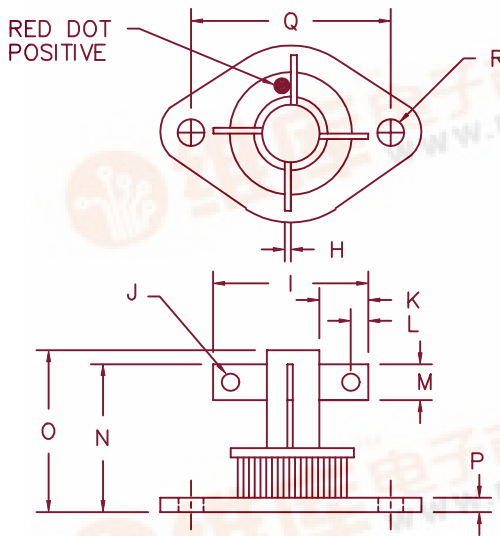


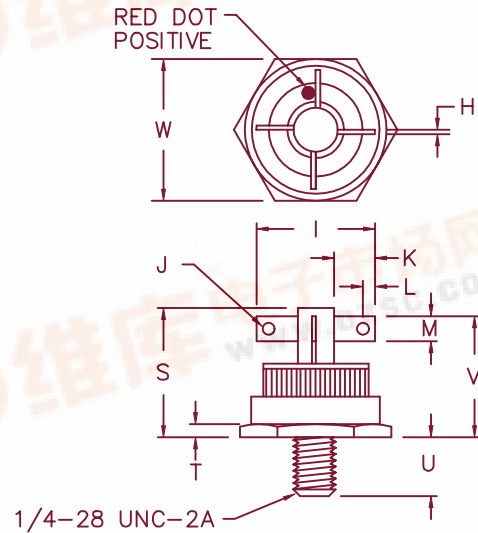
# 25Amp Fast Recovery Full Wave Bridge Rectifier MY100X — MY400X



Note: Electrically Isolated



MY100XT



MY100XS

| Dim. | Inches  |           | Millimeter |         | Notes |
|------|---------|-----------|------------|---------|-------|
|      | Minimum | Maximum   | Minimum    | Maximum |       |
| A    | .018    | .028      | 0.46       | 0.71    |       |
| B    | ---     | .070 typ. | ---        | ---     | Dia.  |
| C    | ---     | .125 typ. | ---        | ---     |       |
| D    | .290    | .330      | 7.37       | 8.38    |       |
| E    | ---     | .825      | ---        | 20.95   |       |
| F    | .390    | .420      | 9.90       | 10.67   |       |
| G    | .751    | .755      | 19.07      | 19.18   |       |
| H    | ---     | .032 typ. | ---        | ---     |       |
| I    | ---     | 1.0       | ---        | 25.4    |       |
| J    | ---     | .11 typ.  | ---        | ---     | Dia.  |
| K    | .250    | ---       | 6.35       | ---     |       |

| Dim. | Inches  |           | Millimeter |         | Notes |
|------|---------|-----------|------------|---------|-------|
|      | Minimum | Maximum   | Minimum    | Maximum |       |
| L    | ---     | .125 Typ. | ---        | ---     |       |
| M    | ---     | .187 Typ. | ---        | ---     |       |
| N    | ---     | .830      | ---        | 21.08   |       |
| O    | ---     | .930      | ---        | 23.62   |       |
| P    | ---     | .135      | ---        | 3.43    |       |
| Q    | 1.177   | 1.197     | 29.90      | 30.40   |       |
| R    | .151    | .161      | 3.84       | 4.10    | Dia.  |
| S    | ---     | 1.20      | ---        | 30.48   |       |
| T    | ---     | .125 typ. | ---        | ---     |       |
| U    | .340    | .400      | 8.64       | 10.16   |       |
| V    | ---     | 1.10      | ---        | 27.94   |       |
| W    | ---     | .875      | ---        | 22.83   |       |

# MY100X — MY400X

## Microsemi Catalog Number

MY100X  
MY200X  
MY300X  
MY400X

## Repetitive Peak Reverse Voltage

100V  
200V  
300V  
400V

- Glass Passivated Die
- Hermetically sealed
- Fast Recovery
- 175°C Junction temperature
- 2000VDC Isolation voltage

## Electrical Characteristics

|                                   |                           |                                                           |
|-----------------------------------|---------------------------|-----------------------------------------------------------|
| DC forward current output         | $I_o$ 25A                 | $T_C = 110^\circ\text{C}$                                 |
| Maximum Surge Current             | $I_{FSM}$ 150 Amps        | 8.3ms, half sine, $T_C = 110^\circ\text{C}$               |
| Maximum $I^2t$ For Fusing         | $i^2t$ 93A <sup>2</sup> s |                                                           |
| Max. Peak Forward Voltage per leg | $V_{FM}$ 1.3 Volts        | $I_{FM} = 25\text{A}; T_J = 25^\circ\text{C}$             |
| Max. Peak Reverse Current         | $I_{RM}$ 10 $\mu\text{A}$ | $V_{RM} = 200\text{V}, T_J = 25^\circ\text{C}$            |
| Max. Peak Reverse Current         | $I_{RM}$ 3 mA             | $V_{RM} = 200\text{V}, T_J = 150^\circ\text{C}$           |
| Maximum Reverse Recovery Time     | $t_{rr}$ 200 nS           | $I_F = 1\text{A}, I_R = 2\text{A}, I_{REC} = 0.5\text{A}$ |

## Thermal and Mechanical Characteristics

|                                      |                 |                                             |
|--------------------------------------|-----------------|---------------------------------------------|
| Storage temperature range            | $T_{STG}$       | $-65^\circ\text{C}$ to $+175^\circ\text{C}$ |
| Operating junction temperature range | $T_{OP}$        | $-65^\circ\text{C}$ to $+175^\circ\text{C}$ |
| Max thermal resistance per package   | $R_{\theta JC}$ | 1.0°C/W                                     |

# MY100X — MY400X

Figure 1  
Typical Forward Characteristics

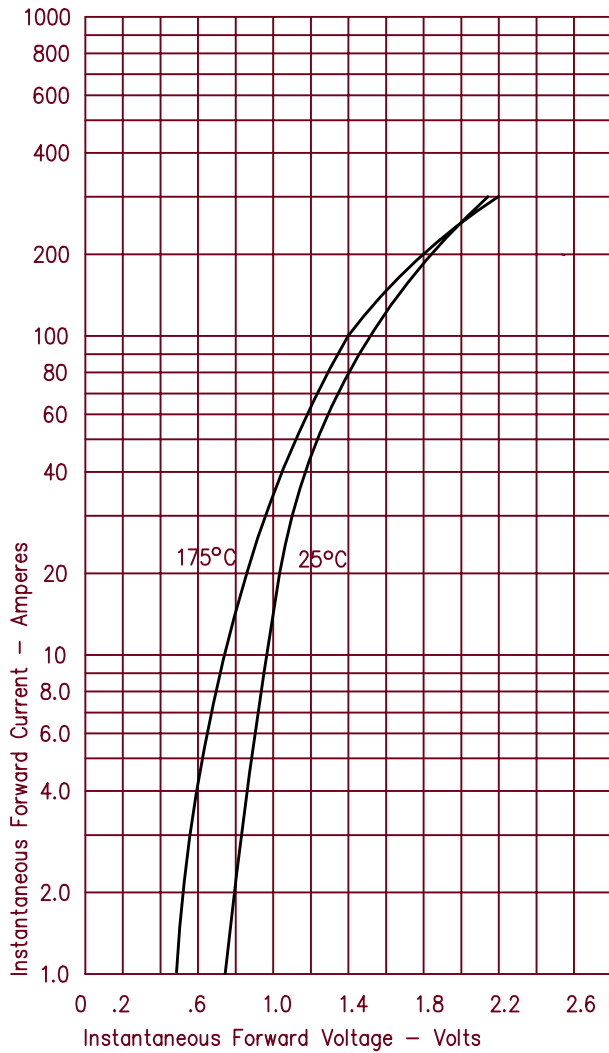


Figure 3  
Forward Current Derating

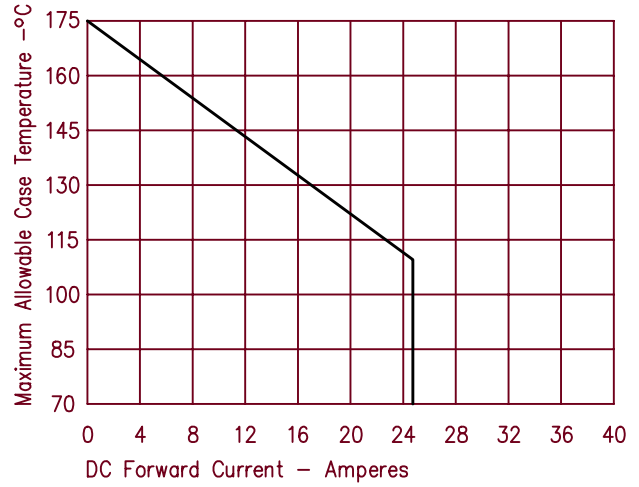


Figure 2  
Typical Reverse Characteristics

