



## 3HVRC SERIES

3 to 75kV, 1.75A, Standard Recovery  
Rectifier Blocks with Insert Mounting



### Features

- Medium Power
- Single and 2-Leg Versions, Resistor Capacitor Compensated
- Epoxy Molded Encapsulation with Mounting Inserts
- Threaded Brass Solder Terminal Inserts

### Specifications<sup>1</sup>

| Part Number <sup>2</sup>                           | $V_{RRM}^3$<br>V | $I_{FAVM}^3$<br>A | $V_F^3$<br>V | $I_R$<br>$\mu$ A | $I_{FSM}$<br>A | L<br>in. |
|----------------------------------------------------|------------------|-------------------|--------------|------------------|----------------|----------|
| Common Anode (N) Center Tap Subseries (Figure 1)   |                  |                   |              |                  |                |          |
| 3HVN5RC                                            | 5000             | 1.75              | 4.8          | 500              | 150            | 4.50     |
| 3HVN8RC                                            | 8000             | 1.75              | 7.5          | 500              | 150            | 5.50     |
| 3HVN10RC                                           | 10000            | 1.75              | 9.0          | 500              | 150            | 7.00     |
| 3HVN12RC                                           | 12000            | 1.75              | 10.8         | 500              | 150            | 8.25     |
| 3HVN15RC                                           | 15000            | 1.75              | 14.0         | 500              | 150            | 10.25    |
| 3HVN20RC                                           | 20000            | 1.75              | 18.0         | 500              | 150            | 13.25    |
| 3HVN25RC                                           | 25000            | 1.75              | 23.0         | 500              | 150            | 16.25    |
| Common Cathode (P) Center Tap Subseries (Figure 2) |                  |                   |              |                  |                |          |
| 3HVP5RC                                            | 5000             | 1.75              | 4.8          | 500              | 150            | 4.50     |
| 3HVP8RC                                            | 8000             | 1.75              | 7.5          | 500              | 150            | 5.50     |
| 3HVP10RC                                           | 10000            | 1.75              | 9.0          | 500              | 150            | 7.00     |
| 3HVP12RC                                           | 12000            | 1.75              | 10.8         | 500              | 150            | 8.25     |
| 3HVP15RC                                           | 15000            | 1.75              | 14.0         | 500              | 150            | 10.25    |
| 3HVP20RC                                           | 20000            | 1.75              | 18.0         | 500              | 150            | 13.25    |
| 3HVP25RC                                           | 25000            | 1.75              | 23.0         | 500              | 150            | 16.25    |
| Doubler-Style Center Tap Subseries (Figure 3)      |                  |                   |              |                  |                |          |
| 3HVD5RC                                            | 5000             | 1.75              | 4.8          | 500              | 150            | 4.50     |
| 3HVD8RC                                            | 8000             | 1.75              | 7.5          | 500              | 150            | 5.50     |
| 3HVD10RC                                           | 10000            | 1.75              | 9.0          | 500              | 150            | 7.00     |
| 3HVD12RC                                           | 12000            | 1.75              | 10.8         | 500              | 150            | 8.25     |
| 3HVD15RC                                           | 15000            | 1.75              | 14.0         | 500              | 150            | 10.25    |
| 3HVD20RC                                           | 20000            | 1.75              | 18.0         | 500              | 150            | 13.25    |
| 3HVD25RC                                           | 25000            | 1.75              | 23.0         | 500              | 150            | 16.25    |
| Non-Tapped Subseries (Figure 4)                    |                  |                   |              |                  |                |          |
| 3HV3RC                                             | 3000             | 1.75              | 2.4          | 500              | 150            | 2.38     |
| 3HV5RC                                             | 5000             | 1.75              | 4.8          | 500              | 150            | 2.38     |
| 3HV8RC                                             | 8000             | 1.75              | 7.5          | 500              | 150            | 2.38     |
| 3HV10RC                                            | 10000            | 1.75              | 9.0          | 500              | 150            | 4.50     |
| 3HV12RC                                            | 12000            | 1.75              | 10.8         | 500              | 150            | 4.50     |
| 3HV15RC                                            | 15000            | 1.75              | 14.0         | 500              | 150            | 5.50     |
| 3HV20RC                                            | 20000            | 1.75              | 18.0         | 500              | 150            | 7.00     |
| 3HV25RC                                            | 25000            | 1.75              | 22.0         | 500              | 150            | 8.25     |
| 3HV30RC                                            | 30000            | 1.75              | 28.0         | 500              | 150            | 10.25    |
| 3HV40RC                                            | 40000            | 1.75              | 36.0         | 500              | 150            | 13.25    |
| 3HV50RC                                            | 50000            | 1.75              | 44.0         | 500              | 150            | 16.25    |
| 3HV75RC                                            | 75000            | 1.75              | 69.0         | 500              | 150            | 25.00    |



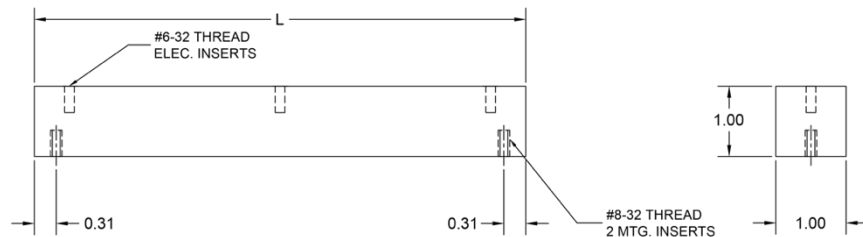
| Temperature °C               |            |
|------------------------------|------------|
| Operating Temperature        | -55 to 150 |
| Storage Temperature          | -55 to 150 |
| Maximum Junction Temperature | 150        |

<sup>1</sup>25°C ambient temperature unless stated otherwise.

<sup>2</sup>For solder turrets add suffix "T"; for mounting studs add suffix "S".

<sup>3</sup>Check Specification Definitions for conditions details.

## Drawings



Dimensions in inches, tolerances  $\pm 0.020$  except as noted

## Specification Definitions

| Specifications |                                    | Conditions                            |
|----------------|------------------------------------|---------------------------------------|
| $V_{RRM}$      | Maximum Repetitive Reverse Voltage | Per Leg                               |
| $I_{FAVM}$     | Maximum Average Forward Current    | At $T_A = 55^\circ\text{C}$ , Per Leg |
| $V_F$          | Maximum Forward Voltage Drop       | At $I_{FAVM}$ , Per Leg               |
| $I_R$          | Maximum Leakage Current            | At $V_{RRM}$                          |
| $I_{FSM}$      | Maximum Surge Current              | At 8.3 mS, Single Half Sine           |

## Configurations:

Figure 1

Common Anode (Negative) Center Tap

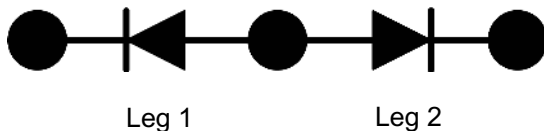


Figure 2

Common Cathode (Positive) Center Tap

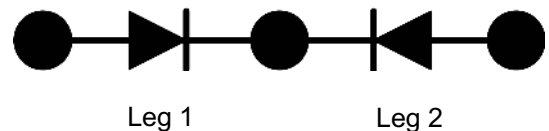


Figure 3

Doubler-Style Center Tap

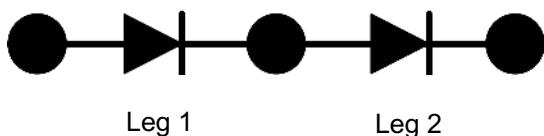


Figure 4

Non-Tapped



Note: Specifications subject to change without notice. Photo is representation only.

