



# 3HG SERIES

5 to 30kV, 2.0 to 2.5A, Standard Recovery  
Rectifier Blocks with Mounting Slots



## Features

- Medium Power
- Single and 2-Leg Versions
- Epoxy Molded Encapsulation
- Threaded Brass Solder Terminal Inserts

## Specifications<sup>1</sup>

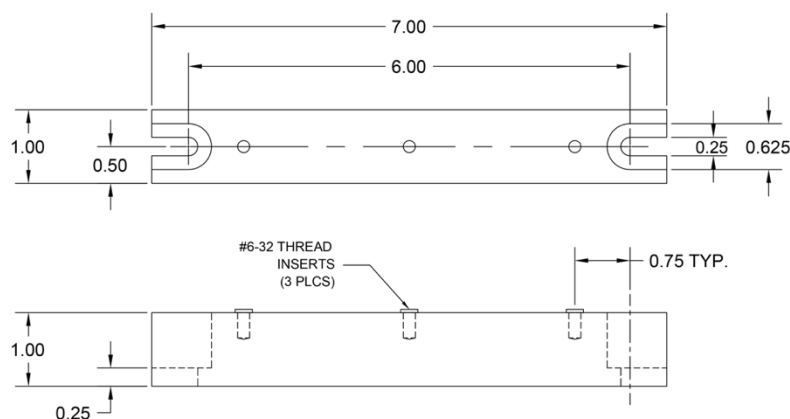
| Part Number <sup>2</sup>                           | $V_{RRM}$<br>V | $I_{FAVM}$<br>A | $V_F$<br>V | $I_R$<br>$\mu A$ | $I_{FSM}$<br>A |
|----------------------------------------------------|----------------|-----------------|------------|------------------|----------------|
| Common Anode (N) Center Tap Subseries (Figure 1)   |                |                 |            |                  |                |
| 3HGN5                                              | 5000           | 2.50            | 4.8        | 0.5              | 150            |
| 3HGN10                                             | 10000          | 2.25            | 9.0        | 0.5              | 150            |
| 3HGN15                                             | 15000          | 2.00            | 14.0       | 0.5              | 150            |
| Common Cathode (P) Center Tap Subseries (Figure 2) |                |                 |            |                  |                |
| 3HGP5                                              | 5000           | 2.50            | 4.8        | 0.5              | 150            |
| 3HGP10                                             | 10000          | 2.25            | 9.0        | 0.5              | 150            |
| 3HGP15                                             | 15000          | 2.00            | 14.0       | 0.5              | 150            |
| Doubler-Style Center Tap Subseries (Figure 3)      |                |                 |            |                  |                |
| 3HGD5                                              | 5000           | 2.50            | 4.8        | 0.5              | 150            |
| 3HGD10                                             | 10000          | 2.25            | 9.0        | 0.5              | 150            |
| 3HGD15                                             | 15000          | 2.00            | 14.0       | 0.5              | 150            |
| 3HGD18                                             | 18000          | 2.25            | 16.0       | 0.5              | 150            |
| Non-Tapped Subseries (Figure 4)                    |                |                 |            |                  |                |
| 3HG10                                              | 10000          | 2.50            | 9.0        | 0.5              | 150            |
| 3HG15                                              | 15000          | 2.25            | 14.0       | 0.5              | 150            |
| 3HG20                                              | 20000          | 2.25            | 18.0       | 0.5              | 150            |
| 3HG25                                              | 25000          | 2.00            | 22.0       | 0.5              | 150            |
| 3HG30                                              | 30000          | 2.00            | 28.0       | 0.5              | 150            |

| Temperature °C        |            |
|-----------------------|------------|
| Operating Temperature | -45 to 150 |
| Storage Temperature   | -45 to 150 |

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

<sup>2</sup>For solder turrets add suffix "T"; for capacitor only compensation add suffix "C".

## Drawings



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



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## 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

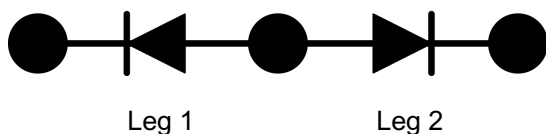


Figure 2

Common Cathode (Positive) Center Tap

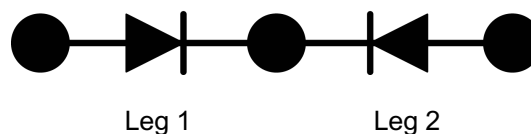


Figure 3

Doubler-Style Center Tap

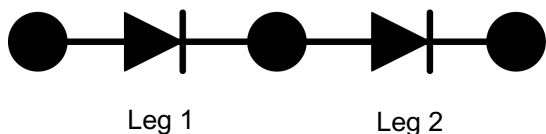


Figure 4

Non-Tapped



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