



## 3HVFK SERIES

5 to 50kV, 2.25 to 2.5A, 250nS Recovery  
Rectifier Blocks with Insert Mounting



### Features

- Epoxy Molded Encapsulation with Mounting Inserts
- Threaded Brass Solder Terminal Inserts

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

| Part Number <sup>2</sup> | V <sub>RRM</sub><br>V | I <sub>FAVM</sub><br>mA | V <sub>F</sub><br>V | I <sub>R</sub><br>μA | I <sub>FSM</sub><br>A | T <sub>RR</sub><br>nS | L<br>in. | W<br>in. | Drawing<br># |
|--------------------------|-----------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|----------|----------|--------------|
| 3HVF5K                   | 5000                  | 2500                    | 7                   | 0.5                  | 100                   | 250                   | 4        | 1        | Fig. 1       |
| 3HVF8K                   | 8000                  | 2500                    | 11                  | 0.5                  | 100                   | 250                   | 6        | 1        | Fig. 1       |
| 3HVF10K                  | 10000                 | 2500                    | 13                  | 0.5                  | 100                   | 250                   | 7        | 1        | Fig. 1       |
| 3HVF15K                  | 15000                 | 2250                    | 22                  | 0.5                  | 100                   | 250                   | 4        | 2        | Fig. 2       |
| 3HVF20K                  | 20000                 | 2250                    | 26                  | 0.5                  | 100                   | 250                   | 6        | 2        | Fig. 2       |
| 3HVF25K                  | 25000                 | 2250                    | 34                  | 0.5                  | 100                   | 250                   | 8        | 2        | Fig. 2       |
| 3HVF30K                  | 30000                 | 2250                    | 40                  | 0.5                  | 100                   | 250                   | 4        | 3        | Fig. 2       |
| 3HVF40K                  | 40000                 | 2250                    | 52                  | 0.5                  | 100                   | 250                   | 8        | 3        | Fig. 2       |
| 3HVF50K                  | 50000                 | 2250                    | 68                  | 0.5                  | 100                   | 250                   | 6        | 4        | Fig. 2       |

| 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".

### Drawings

FIG 1

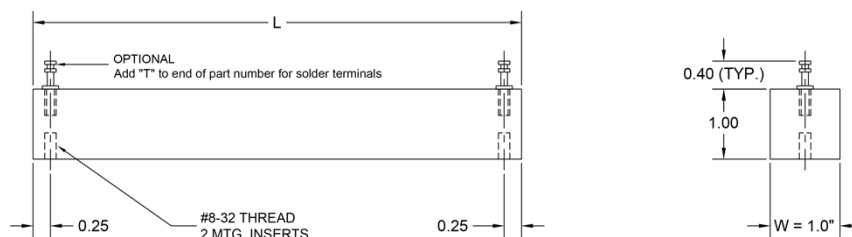
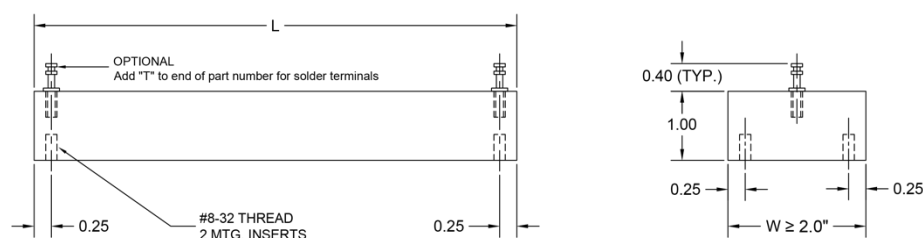


FIG 2



Dimensions in inches, tolerances ±0.020 except as noted



## Specification Definitions

| Specifications          |                                    | Conditions                                                                |
|-------------------------|------------------------------------|---------------------------------------------------------------------------|
| <b>V<sub>RRM</sub></b>  | Maximum Repetitive Reverse Voltage | -                                                                         |
| <b>I<sub>FAVM</sub></b> | Maximum Average Forward Current    | At T <sub>A</sub> = 55°C                                                  |
| <b>V<sub>F</sub></b>    | Maximum Forward Voltage Drop       | At I <sub>FAVM</sub>                                                      |
| <b>I<sub>R</sub></b>    | Maximum Leakage Current            | At V <sub>RRM</sub>                                                       |
| <b>I<sub>FSM</sub></b>  | Maximum Surge Current              | At 8.3 mS, Single Half Sine                                               |
| <b>T<sub>RR</sub></b>   | Maximum Reverse Recovery Time      | I <sub>F</sub> = 250mA; I <sub>R</sub> = -500mA; I <sub>RR</sub> = -125mA |

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

