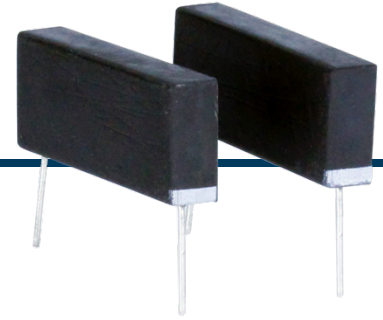




# HV459 SERIES

8 to 12kV, 650 to 1100mA, 75nS to Standard Recovery  
High Voltage Modules



## Features

- Encapsulated High Current Rectifier Module
- Large Surface Area for Distributed Heat Transfer
- Aids in Efficient Utilization of PC Board Area

## Specifications<sup>1</sup>

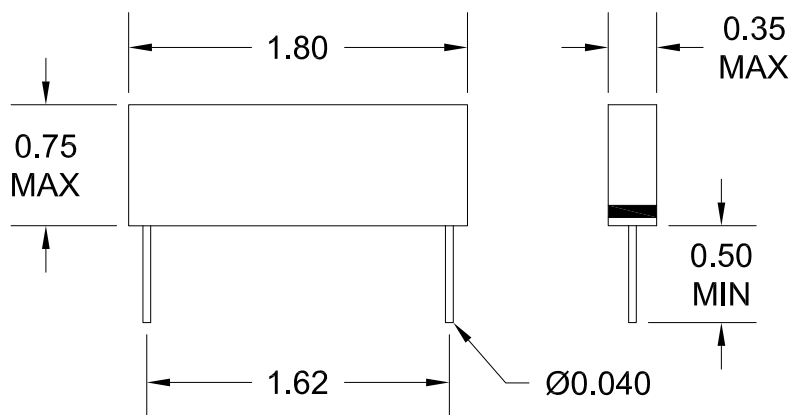
Part Number	V <sub>RRM</sub> V	I <sub>FAVM1</sub> mA	I <sub>FAVM2</sub> mA	V <sub>F</sub> V	I <sub>R</sub> μA	I <sub>FSM</sub> A	C <sub>J</sub> pF	T <sub>RR</sub> <sup>2</sup> nS
<b>Standard Recovery Subseries</b>								
<b>HV459S8</b>	8000	1100	2000	10.0	10	80	-	-
<b>HV459S10</b>	10000	970	2000	12.5	10	80	-	-
<b>HV459S12</b>	12000	850	2000	15.0	10	80	-	-
<b>Ultra Fast Recovery Subseries</b>								
<b>HV459U8</b>	8000	850	1500	10.7	10	45	8.3	75
<b>HV459U10</b>	10000	750	1500	13.4	10	45	6.6	75
<b>HV459U12</b>	12000	650	1500	16.1	10	45	5.5	75

Temperature °C	
Storage Temperature	-40 to 150
Operating Temperature	-40 to 150

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

<sup>2</sup>A "-" indicates that the component is a standard recovery device and no T<sub>RR</sub> data is taken.

## Drawings



Dimensions in inches, tolerances ±0.020 except as noted



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## Specification Definitions

Specifications		Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Reverse Voltage	-
<b>I<sub>FAVM1</sub></b>	Maximum Average Forward Current	At T <sub>A</sub> = 25°C
<b>I<sub>FAVM2</sub></b>	Maximum Average Forward Current	At T <sub>A</sub> = 55°C, in Oil
<b>V<sub>F</sub></b>	Maximum Forward Voltage Drop	At 100mA
<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>C<sub>J</sub></b>	Typical Junction Capacitance	At V <sub>R</sub> = 0VDC, f = 1MHz
<b>T<sub>RR</sub></b>	Maximum Reverse Recovery Time	I <sub>F</sub> = 0.5 I <sub>FAVM1</sub> ; I <sub>R</sub> = - I <sub>FAVM1</sub> ; I <sub>RR</sub> = -0.25 I <sub>FAVM1</sub>

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

