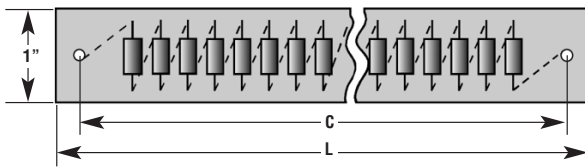


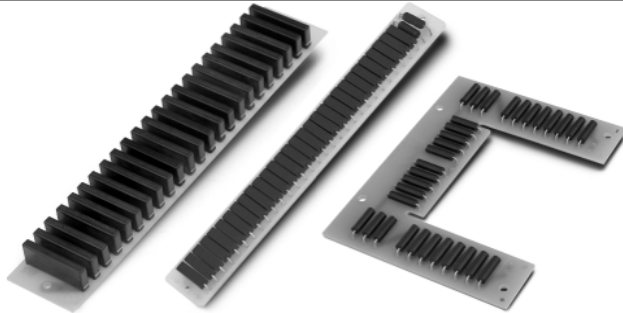
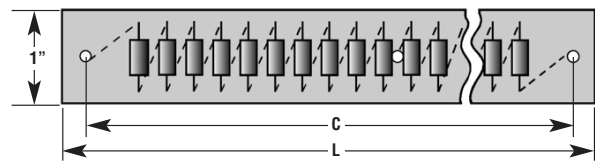


FIGURE 20

High Voltage Board Rectifier Assembly (A-E)



High Voltage Board Rectifier Assembly (F)



| Board Size | Dimension L | Dimension C | Hole Diameter |
|------------|-------------|-------------|---------------|
| A | 4.17 | 3.85 | 0.16 |
| B | 6 | 5.6 | 0.15 |
| C | 6.75 | 6.5 | 0.16 |
| D | 8.6 | 8.3 | 0.16 |
| E | 10.5 | 10 | 0.15 |
| F | 6.5 | 6.17* | 0.14 |

*This is the end hole center to center dimension, middle hole is offset 3" & 3.17"

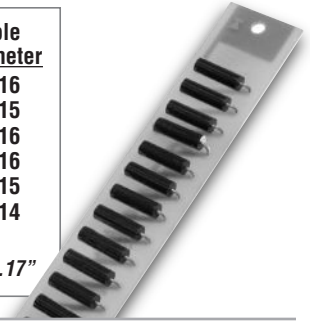


FIGURE 146

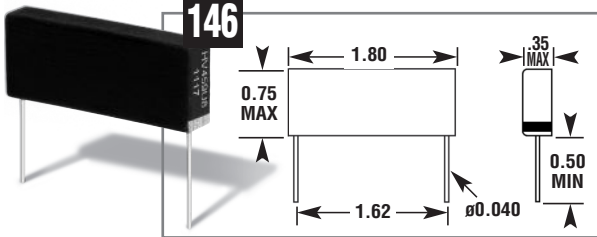
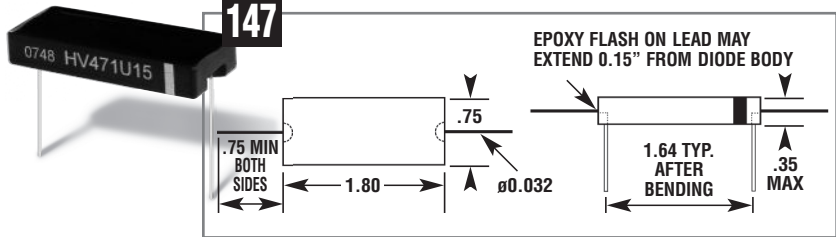


FIGURE 147



| Part Number | Repetitive Peak Reverse Voltage V_{RRM} V | Average Forward Current Maximum $I_{FAVM}@$ $T_A=25^\circ\text{C}$ mA $T_{OH}=55^\circ\text{C}$ mA | Maximum Forward Voltage Drop $V_F@I_F^3$ V | Maximum Reverse Current $I_R@V_{RRM}@25^\circ\text{C}$ μA | Typical Junction Capacitance C_j^1 pF | Maximum Reverse Recovery Time T_{RR} nS | Maximum Surge Current I_{FSM} (8.3ms) ² A | Figure |
|--|--|---|--|--|--|--|--|--------|
| HV459S Series - High Current Rectifiers Standard Recovery | | | | | | | | |
| HV459S8 | 8000 | 1100 | 2000 | 10.0 | - | - | 80 | 146 |
| HV459S10 | 10000 | 970 | 2000 | 12.5 | - | - | 80 | 146 |
| HV459S12 | 12000 | 850 | 2000 | 15.0 | - | - | 80 | 146 |
| HV459U Series - High Current Rectifiers Ultra Fast Recovery | | | | | | | | |
| HV459U8 | 8000 | 850 | 1500 | 10.7 | 8.3 | 75 | 45 | 146 |
| HV459U10 | 10000 | 750 | 1500 | 13.4 | 6.6 | 75 | 45 | 146 |
| HV459U12 | 12000 | 650 | 1500 | 16.1 | 5.5 | 75 | 45 | 146 |
| HV458S Series - Medium Current Rectifiers Standard Recovery | | | | | | | | |
| HV458S8 | 8000 | 650 | 1200 | 8.0 | - | - | 50 | 146 |
| HV458S10 | 10000 | 550 | 1000 | 10.0 | - | - | 50 | 146 |
| HV458S12 | 12000 | 475 | 870 | 12.0 | - | - | 50 | 146 |
| HV458S15 | 15000 | 425 | 780 | 15.0 | - | - | 50 | 146 |
| HV458U Series - Medium Current Rectifiers Ultra Fast Recover | | | | | | | | |
| HV458U8 | 8000 | 425 | 750 | 20.0 | 4.7 | 75 | 30 | 146 |
| HV458U10 | 10000 | 375 | 660 | 25.0 | 3.8 | 75 | 30 | 146 |
| HV458U12 | 12000 | 325 | 570 | 30.0 | 3.2 | 75 | 30 | 146 |
| HV458U15 | 15000 | 275 | 480 | 37.5 | 2.5 | 75 | 30 | 146 |
| HV471U Series - Medium Current Rectifiers Ultra Fast Recovery | | | | | | | | |
| HV471U8 | 8000 | 425 | 750 | 20.0 | 4.7 | 75 | 30 | 147 |
| HV471U10 | 10000 | 375 | 660 | 25.0 | 3.8 | 75 | 30 | 147 |
| HV471U12 | 12000 | 325 | 570 | 30.0 | 3.2 | 75 | 30 | 147 |
| HV471U15 | 15000 | 275 | 480 | 37.5 | 2.5 | 75 | 30 | 147 |

¹ Diode Junction Capacitance is measured at 1 Mhz, $V_R=0$ and $T_A=25^\circ\text{C}$

² 1/2 Sine(60Hz) @ 25°C

³ V_F measured at 100mA & 25°C

A "-" indicates the component is a standard recovery device and no T_{RR} data is taken. See page 23 for info.

Storage & Operating Temperatures -55°C to 150°C

All listed products shipped on December 31, 2013 or later will be RoHS Compliant. Available earlier by special request, contact factory or sales rep for availability.