



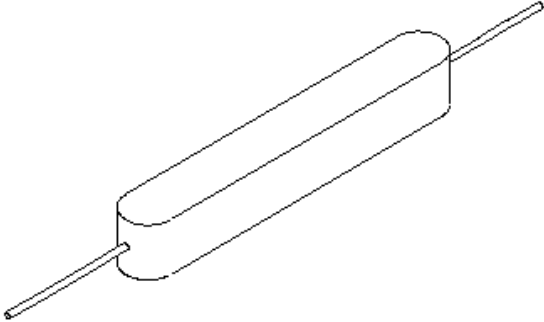
180 Lafayette Road  
 North Hampton, NH 03862-2448  
 PH: 603-964-3165  
 FX: 603-964-3168  
 WWW.PDEELECTRONICS.COM

## Rectifier Assembly

### Standard Recovery High Voltage HVHF Series

- QUICK REFERENCE DATA**
- $V_R = 5000 - 25000$  VOLTS
  - $I_F = 0.5$  AMPS
  - $I_R = 0.1 \mu$ AMPS
  - $I_{FSM} = 60$  AMPS

- FEATURES**
- High Voltage
  - High Density
  - Standard Recovery
  - Low Reverse Leakage Current
  - Low Forward Voltage Drop
  - High Thermal Shock Resistance
  - Corona Free Construction
  - Low Distributed Capacitance



**ABSOLUTE MAXIMUM RATINGS**

Device Type	Peak Inverse Voltage PIV Volts	Average Rectified Current $I_{F(AV)}$		1 Cycle Surge Current $I_{FSM}$ $t_p = 8.3mS$	Reverse Recovery Time*
		TA @55°C	TA @100°C	TA @25°C	TA @25°C
		Amps	Amps	Amps	$\mu$ Sec
HVHF5000	5000	0.50	0.33	60	1.0
HVHF7500	7500	0.50	0.33	60	1.0
HVHF10000	10000	0.50	0.33	60	1.0
HVHF12500	12500	0.50	0.33	60	1.0
HVHF15000	15000	0.50	0.33	60	1.0
HVHF20000	20000	0.50	0.33	60	1.0
HVHF25000	25000	0.50	0.33	60	1.0

\*Measured in discrete devices prior to assembly.  $I_F = 100$  mA,  $I_R = 200$  mA,  $I_{RR} = 50$  mA

**TEMPERATURE RATINGS**

Operating Temperature Range.....	-55°C to +150°C
Storage Temperature Range .....	-55°C to +150°C



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### ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current $I_R @ V_{RWM}$		Maximum Forward Voltages $V_F @ I_F$ @25°C	
	@25°C	@100°C	Volts	Amps
	μA	μA		
HVHF5000	0.10	15.0	7.0	0.50
HVHF7500	0.10	15.0	10.0	0.50
HVHF10000	0.10	15.0	14.0	0.50
HVHF12500	0.10	15.0	17.0	0.50
HVHF15000	0.10	15.0	20.0	0.50
HVHF20000	0.10	15.0	27.0	0.50
HVHF25000	0.10	15.0	33.0	0.50

### MECHANICAL CHARACTERISTICS

PART NUMBER	CASE LENGTH INCHES
HVHF5000	1.125
HVHF7500	1.625
HVHF10000	2.000
HVHF12500	2.375
HVHF15000	2.750
HVHF20000	3.500
HVHF25000	4.250