



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

High Voltage Rectifier Assembly

RHV Series

FEATURES

- Low Reverse Recovery Time
- Low Reverse Leakage Current
- High Voltage
- Corona Free Construction
- Low Distributed Capacitance

QUICK REFERENCE DATA

- $V_R = 15,000 \text{ VOLTS} - 120,000 \text{ VOLTS}$
- $T_{rr} = 100 \text{ nSEC}$
- $I_F = 25\text{mA AMP}$
- $I_R = 1 \mu\text{AMP}$

ABSOLUTE MAXIMUM RATINGS

Device	Maximum Leakage Current Per Leg $I_R @ V_{RWM}$	Maximum Forward Voltage Per Leg $V_F @ I_F$		Maximum Reverse Recovery T_{RR}^*
	$T_A = 25^\circ\text{C}$	$T_A = 25^\circ\text{C}$		$T_A = 25^\circ\text{C}$
	μA	Volts	mAmps	nS
RHV15	1	35	25	100
RHV20	1	55	25	100
RHV25	1	55	25	100
RHV30	1	70	25	100
RHV35	1	110	25	100
RHV40	1	110	25	100
RHV50	1	110	25	100
RHV60	1	110	25	100
RHV90	1	165	25	100
RHV120	1	220	25	100
RHV150	1	275	25	100

* Measured on discretes prior to assembly in reverse recovery circuit switching from 0.5A forward to 1.0A reverse current recovering to 0.25A reverse current.

ELECTRICAL CHARACTERISTICS

Device	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)} @ T_A$	1 Cycle Surge Current $T_p = 8.3\text{mS}$ $I_{FSM} @ T_A$	Case Length $\pm .030''$
	Volts	mAmps	Amps	Dim C
		55°C	25°C	Inches
RHV15	15000	25	3	2.0
RHV20	20000	25	3	2.0
RHV25	25000	25	3	2.0
RHV30	30000	25	3	3.0
RHV35	35000	25	3	3.0
RHV40	40000	25	3	3.0
RHV50	50000	25	3	3.0
RHV60	60000	25	3	3.0
RHV90	90000	25	3	3.0
RHV120	120000	25	3	3.0
RHV150	150000	25	3	3.0

Specifications subject to change without notice to ensure a better product

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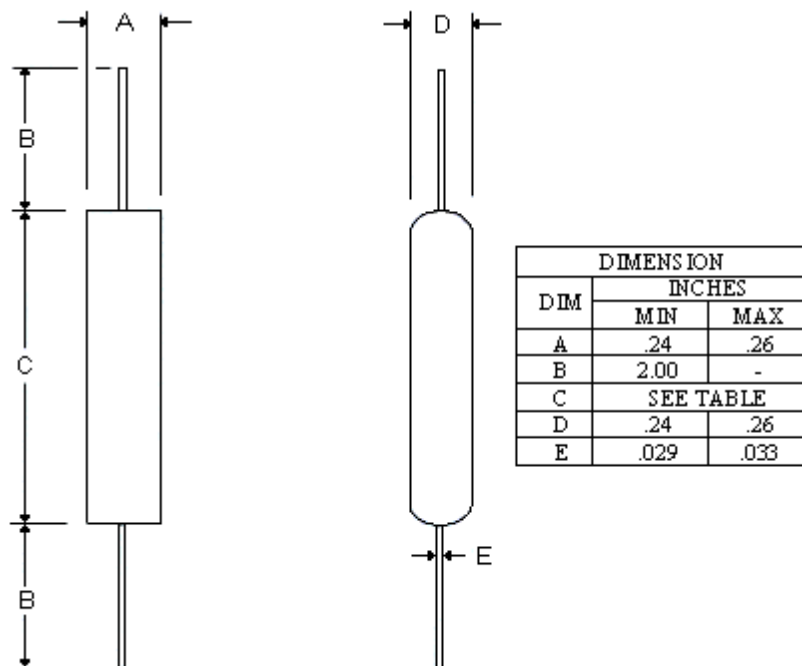


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MECHANICAL CHARACTERISTICS



THERMAL CHARACTERISTICS

Operating Temperature.....-55°C to +150°C
Storage Temperature.....-65°C to +175°C

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