



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
1N4865 – 1N4887

- QUICK REFERENCE DATA**
- $V_R = 1500 - 75000V$
 - $I_F = 1.25A$
 - $I_R = 10\mu A$
 - $I_{FSM} = 150A$

- 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	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$	1 Cycle Surge Current I_{FSM} $t_p = 8.3mS$
		@Ta=+40°C	@Ta=+25°C
	Volts	Amps	Amps
1N4865	1500	1.25	150
1N4866	2500	1.25	150
1N4867	3000	1.25	150
1N4868	5000	1.25	150
1N4869	7500	1.25	150
1N4870	10000	1.25	150
1N4871	12000	1.25	150
1N4872	15000	1.25	150
1N4873	20000	1.25	150
1N4874	25000	1.25	150
1N4875	30000	1.25	150
1N4876	40000	1.25	150
1N4877	50000	1.25	150
1N4887	75000	1.25	150

TEMPERATURE RATINGS

Operating Temperature Range.....	-55°C to +125°C
Storage Temperature Range.....	-55°C to +125°C



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ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current $I_R @ V_{RWM}$		Maximum Forward Voltage $V_F @ I_F$		Case Length +/- .030" L
	@Ta=+25°C	@Ta=+125°C	@Ta=+25°C		
	µA	µA	Volts	Amps	Inches
1N4865	10	600	2.40	1.25	1.62
1N4866	10	600	3.60	1.25	1.62
1N4867	10	600	4.80	1.25	2.37
1N4868	10	600	8.40	1.25	2.37
1N4869	10	600	12.0	1.25	3.25
1N4870	10	600	16.0	1.25	4.50
1N4871	10	600	18.0	1.25	4.50
1N4872	10	600	23.0	1.25	5.50
1N4873	10	600	30.0	1.25	7.00
1N4874	10	600	38.0	1.25	8.25
1N4875	10	600	46.0	1.25	10.3
1N4876	10	600	60.0	1.25	13.3
1N4877	10	600	76.0	1.25	16.3
1N4887	10	600	115.0	1.25	25.0

MECHANICAL CHARACTERISTICS

