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# **RECTIFIERS** High Efficiency, ESP, 2.5 Amp to 20 Amp

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#### FEATURES

- Exceptional Efficiency
- Low Forward Voltage
- Extremely Fast Reverse Recovery Time
- Extremely Fast Forward Recovery Time
- High Surge
- Small Size

### 1N5802-1N5806 1N5807-1N5811 1N5812-1N5816

#### DESCRIPTION

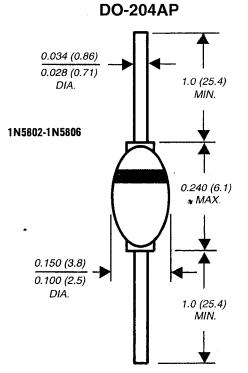
This series of High Efficiency Power Rectifiers allows circuit designers to design high current, high frequency supplies to 500 kHz with very low diode losses. The high forward surge capability makes these devices useful in protective circuits.

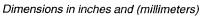
#### ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage	2.5 Amp Series	6 Amp Series		20 Amp Series	
50V	1N5802	1N5807	1N581	2	
75V	1N5803	1N5808	1N581	1N5813	
100V	1N5804	1N5809	1N581	1N5814	
125V	1N5805	1N5810	1N581	1N5815	
150V	1N5806	1N5811	1N581	16	
Maximum Average D.C. Output Current @ $T_L = 75^{\circ}$ C, $L = \frac{3}{2}$ " @ $T_C = 100^{\circ}$ C		2.5 AMP SERIES 2.5A	6.0 AMP SERIES 6.0A	20 AMP Series	
() $()$ $()$ $()$ $()$ $()$ $()$ $()$	°C			20.0A	
Non-Repetitive Sinusoidal					
		—65°C to +175°C			

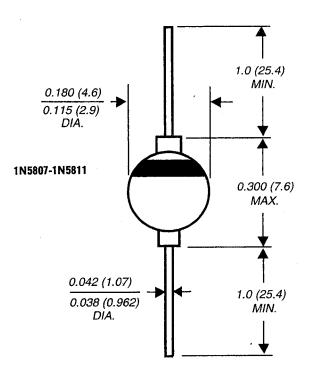
#### ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

Туре	PIV		Leakage Current @ PIV 25°C 100°C		Maximum Reverse Recovery Time	Typical Forward Recovery Time @ 1A Recover to 1V	Typical Forward Recovery Voltage @ 1A tr = 8ns	Typical Junction Capacitance @ —10V
1115000	FOV	Drop*	25 0	100 C	IF, IR, IREC			
1N5802 1N5803 1N5804 1N5805 1N5806	50V 75V 100V 125V 150V	.875 @ 1A	1μΑ	50µA	25ns, 0.5A-0.5A-0.05A	15ns	1.5V	15pf
1N5807 1N5807 1N5808 1N5809 1N5810 1N5811	50V 75V 100V 125V 150V	.875 @ 4A	5μΑ	150µA	30ns, 1.0-1.0-0.1A	15ns	1.5V	45pf
1N5812 1N5813 1N5814 1N5815 1N5816	50V 75V 100V 125V 150V	.900 @ 10A	10µA	750µA	35ns, 1.0-1.0-0.1A	15ns	1.5V	200pf





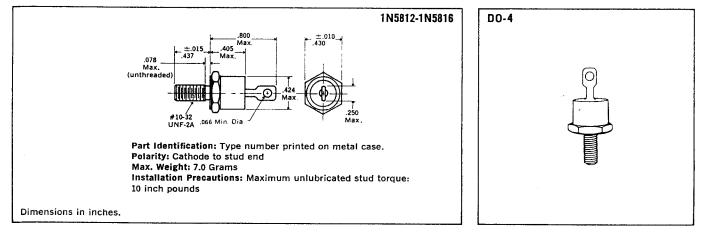




Dimensions in inches and (millimeters)

#### **MECHANICAL SPECIFICATIONS**

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 1N3350RB
 2N6433

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 1N2978B
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 MJ11012
 1N4056
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