

**Passivated  
 Rectifier**

**TRANSIENT VOLTAGE PROTECTED**  
 2.5 Amps                      200-1000 Volts

1N5059
1N5060
1N5061
1N5062
A14P

The A14 is "Transient-Voltage Protected." This device will dissipate up to 1000 watts in the reverse direction without damage. Voltage Transients generated by household or industrial power lines are dissipated.



**absolute maximum ratings:** (25°C unless otherwise specified)

	1N5059 (A14B)	1N5060 (A14D)	1N5061 (A14M)	1N5062 (A14N)	A14P	
*Reverse Voltage (-65°C to +175°C, T <sub>J</sub> ) (-65°C to +165°C for 1N5062 and A14P)						
Working Peak, V <sub>RWM</sub>	200	400	600	800	1000	Volts
DC, V <sub>R</sub>	200	400	600	800	1000	Volts
*Average Forward Current, I <sub>O</sub>			1.0			Amp
*100°C Ambient (90°C for 1N5062 and A14P)			2.5			Amp
25°C Ambient (See Rating Curves)						
*Peak Surge Forward Current, I <sub>FSM</sub>			50			Amps
Non-repetitive, .0083 sec., half sine wave, Full Load JEDEC Method			65			Amps
No Load (25°C Case)						
Peak Surge Forward Current, I <sub>FSM</sub>			90			Amps
Non-repetitive, .001 sec., half sine wave, Full Load			100			Amps
No Load (25°C Case)						
*Junction Operating and Storage Temperature Range, T <sub>J</sub> & T <sub>STG</sub>						°C
I <sup>2</sup> t, RMS (for fusing), .001 to .01 sec.			4.0			Amps <sup>2</sup> sec.
Maximum Avalanche Voltage			1600			Volts
Peak Non-repetitive Reverse Power Rating, P <sub>RM</sub>			1000			Watts
20 μsec., half sine wave, at Max. T <sub>J</sub>			450			Watts
*100 μsec., JEDEC						

\*Mounting: Any position. Lead Temperature 290°C maximum to 1/8 inch from body for 5 seconds maximum during mounting.

**electrical characteristics:** (25°C unless otherwise specified)

*Maximum Forward Voltage Drop, V <sub>F</sub> , 1A, T <sub>J</sub> = 75°C			1.2			Volts
Maximum Reverse Current, I <sub>R</sub> , at Rated V <sub>RRM</sub> :			5.0			μA
T <sub>J</sub> = 25°C						μA
*T <sub>J</sub> = 165°C	300	300	200	200	200	μA
*T <sub>J</sub> = 175°C						μA
Typical Reverse Current, I <sub>R</sub> , at Rated V <sub>RRM</sub>			1.0			μA
Typical Reverse Current, I <sub>II</sub>						μA
T <sub>J</sub> = 25°C	0.2	0.2	0.3	0.5	0.5	μA
T <sub>J</sub> = 100°C	20	20	20	30	30	μA
Typical Reverse Recovery Time, T <sub>RR</sub>			3			μsec.
Maximum Reverse Recovery Time, T <sub>RR</sub>			6			μsec.

