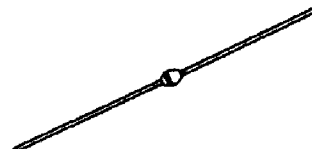


**Passivated
 Rectifier**

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 _J) (-65°C to +165°C for 1N5062 and A14P)							
Working Peak, V _{RWM}	200	400	600	800	1000	Volts	
DC, V _R	200	400	600	800	1000	Volts	
*Average Forward Current, I _O	←-----→						
*100°C Ambient (90°C for 1N5062 and A14P)	←-----→					1.0	Amp
25°C Ambient (See Rating Curves)	←-----→					2.5	Amp
*Peak Surge Forward Current, I _{FSM} Non-repetitive, .0083 sec., half sine wave, Full Load JEDEC Method	←-----→					50	Amps
No Load (25°C Case)	←-----→					65	Amps
Peak Surge Forward Current, I _{FSM} Non-repetitive, .001 sec., half sine wave, Full Load	←-----→					90	Amps
No Load (25°C Case)	←-----→					100	Amps
*Junction Operating and Storage Temperature Range, T _J & T _{STG}	← -65 to +175					← -65 to +165 →	°C
I ² t, RMS (for fusing), .001 to .01 sec.	←-----→					4.0	Amps ² sec.
Maximum Avalanche Voltage	←-----→					1600	Volts
Peak Non-repetitive Reverse Power Rating, P _{RM} 20 μsec., half sine wave, at Max. T _J	←-----→					1000	Watts
*100 μsec., JEDEC	←-----→					450	Watts

*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 _F , 1A, T _J = 75°C	←-----→					1.2	Volts
Maximum Reverse Current, I _R , at Rated V _{RRM} :	←-----→					5.0	μA
T _J = 25°C	←-----→					—	μA
*T _J = 165°C	←-----→					200	μA
*T _J = 175°C	300	300	200	—	—	μA	
Typical Reverse Current, I _R , at Rated V _{RRM}	←-----→					1.0	μA
Typical Reverse Current, I _{II}	←-----→					0.2	μA
T _J = 25°C	0.2	0.2	0.3	0.5	0.5	μA	
T _J = 100°C	20	20	20	30	30	μA	
Typical Reverse Recovery Time, T _{RR}	←-----→					3	μsec.
Maximum Reverse Recovery Time, T _{RR}	←-----→					6	μsec.

