

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

1N5614
1N5616
1N5618
1N5620
1N5622

GLASS PASSIVATED RECTIFIER
1.0 AMPS, 200 THRU 1000 VOLTS

GPR-1A CASE

DESCRIPTION

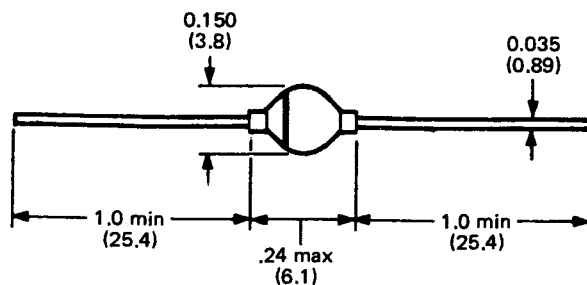
The CENTRAL SEMICONDUCTOR 1N5614 series types are silicon rectifiers mounted in a hermetically sealed, glass passivated package for general applications where high reliability is desired.

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

	SYMBOL	1N5614	1N5616	1N5618	1N5620	1N5622	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
DC Blocking Voltage	V _R	200	400	600	800	1000	V
RMS Reverse Voltage	V _R (RMS)	140	280	420	560	700	V
Average Forward Current (T _A =55°C)	I _O			1.0			A
Peak Forward Surge Current	I _{FSM}			50			A
Operating and Storage Junction Temperature	T _J , T _{STG}			-65 TO +200			°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I _R	V _R =Rated V _{RRM}		0.5	μA
I _R	V _R =Rated V _{RRM} , T _A =100°C		25	μA
V _F	I _F =1.0A		1.2	V
B _V _R	I _R =50μA (1N5614)	220		V
B _V _R	I _R =50μA (1N5616)	440		V
B _V _R	I _R =50μA (1N5618)	660		V
B _V _R	I _R =50μA (1N5620)	880		V
B _V _R	I _R =50μA (1N5622)	1100		V
C	V _R =12V, f=130kHz		35	pF
t _{rr}	I _F =0.5A, I _R =1.0A, Recov. to 0.25A		2.0	μs



DIMENSIONS IN INCHES (MILLIMETERS)