

CentralTM Semiconductor Corp.

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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

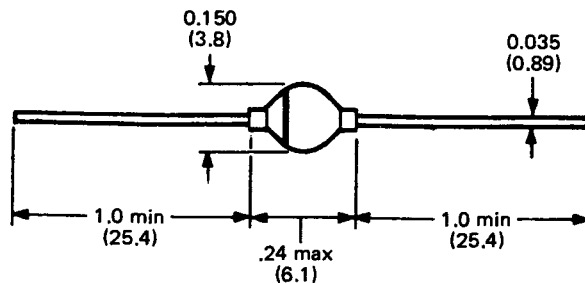
The CENTRAL SEMICONDUCTOR 1N5614 series types are silicon rectifiers mounted in a hermetically sealed, glass passivated package for general applications where high reliability is desired.

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

	SYMBOL	1N5614	1N5616	1N5618	1N5620	1N5622	UNIT
Peak Repetitive Reverse Voltage	VRRM	200	400	600	800	1000	V
DC Blocking Voltage	VR	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	140	280	420	560	700	V
Average Forward Current (TA=55°C)	IO			1.0			A
Peak Forward Surge Current	IFSM			50			A
Operating and Storage Junction Temperature	TJ, TSTG			-65 TO +200			°C

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
IR	VR=Rated VRRM		0.5	µA
IR	VR=Rated VRRM, TA=100°C		25	µA
VF	IF=1.0A		1.2	V
BVR	IR=50µA (1N5614)	220		V
BVR	IR=50µA (1N5616)	440		V
BVR	IR=50µA (1N5618)	660		V
BVR	IR=50µA (1N5620)	880		V
BVR	IR=50µA (1N5622)	1100		V
C	VR=12V, f=130kHz		35	pF
trr	IF=0.5A, IR=1.0A, Recov. to 0.25A		2.0	µs



DIMENSIONS IN INCHES (MILLIMETERS)