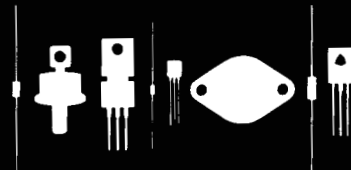


Central
Semiconductor Corp.

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Semiconductor Corp.**

145 Adams Avenue
Hauppauge, New York 11788



1N3981
1N3982
1N3983

GLASS PASSIVATED RECTIFIER
1.0 AMPS, 200 THRU 600 VOLTS

GPR-1A CASE

DESCRIPTION

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

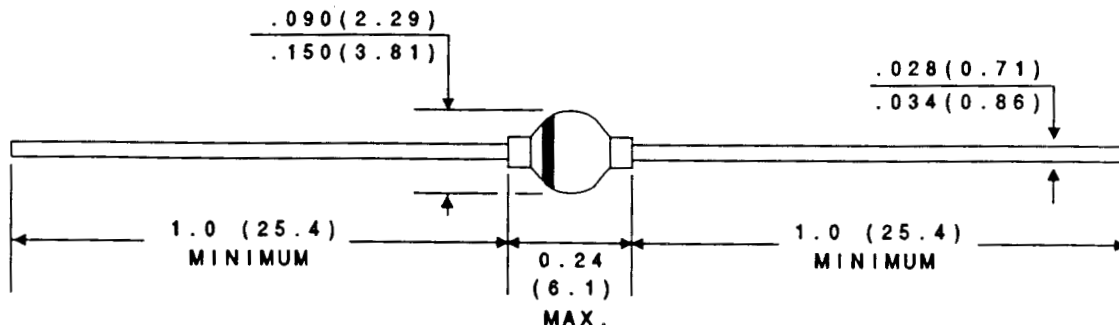
The CENTRAL SEMICONDUCTOR 1N3981 series types are Silicon Rectifiers mounted in a hermetically sealed, glass passivated package for general applications where high reliability is desired.

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

	<u>SYMBOL</u>	<u>1N3981</u>	<u>1N3982</u>	<u>1N3983</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	V
DC Blocking Voltage	V_R	200	400	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	V
Average Forward Current ($T_A = 55^\circ\text{C}$)	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		$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNITS</u>
I_R	$V_R = \text{Rated } V_{RRM}$		10	μA
I_R	$V_R = \text{Rated } V_{RRM}, T_A = 100^\circ\text{C}$		25	μA
V_F	$I_F = 900\text{mA}$		1.0	V
C	$V_R = 12\text{V}, f = 130\text{kHz}$		35	pF
t_{rr}	$I_F = 0.5\text{A}, I_R = 1.0\text{A}, \text{Recov. to } 0.25\text{A}$		2.0	μs



ALL DIMENSIONS IN INCHES (mm).