

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N994

1N995

GERMANIUM DIODE

JEDEC DO-7 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N994, 1N995 types are Gold Bonded Germanium Diodes designed for very fast switching applications.

MAXIMUM RATINGS (T_A=25°C)

	<u>SYMBOL</u>	<u>1N994</u>	<u>1N995</u>	<u>UNIT</u>
Peak Inverse Voltage	PIV	6.5	15	V
Average Forward Rectified Current	I _O	20	30	mA
Peak Recurrent Forward Current (60 Cycle, ½ Wave)	I _{FM}	30	40	mA
Peak Forward Surge Current (1.0s)	I _{FSM}	100	200	mA
Power Dissipation	PD	80	80	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-55 TO +100°C		°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>1N994</u>		<u>1N995</u>		<u>UNIT</u>
		<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	
I _R	V _R =6.0V		30		10	µA
BV _R	I _R =100µA		8.0		15	V
V _F	I _F =10mA		1.0		0.5	V
t _{rr}	I _F =10mA, V _R =6.0V		2.0		6.0	ns