

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N4502

GERMANIUM DIODE

JEDEC DO-7 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4502 type is a Gold Bonded Germanium Diode mounted in a hermetically sealed glass case, designed for general purpose applications. Special devices with a higher breakdown voltage and/or lower leakage limits are available on special order.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL	1N4502	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}	20	V
D.C. Forward Current	I _F	100	mA
Peak Forward Current	I _{FM}	350	mA
Peak Forward Surge Current (1.0s)*	I _{FSM}	500	mA
Power Dissipation**	P _D	80	mW
Operating and Storage Junction Temperature	T _J , T _{STG}	-65 to +100	°C

*Non-recurrent

**Derate above 25°C 10mW/10°C

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I _R	V _R =6.0V		10	μA
BV _R	I _R =1.0mA	20		V
V _F	I _F =3.0mA		0.35	V
V _F	I _F =100mA		1.0	V