

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

	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	$^\circ\text{C}$

*Non-recurrent

**Derate above 25°C 10mW/ 10°C

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_R	$V_R=6.0\text{V}$		10	μA
BV_R	$I_R=1.0\text{mA}$	20		V
V_F	$I_F=3.0\text{mA}$		0.35	V
V_F	$I_F=100\text{mA}$		1.0	V