

# New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.  
SPRINGFIELD, NEW JERSEY 07081  
U.S.A.

TELEPHONE: (973) 376-2922  
(212) 227-6005  
FAX: (973) 376-8960

## IN4500

### SWITCHING DIODE

#### FEATURES

- SILICON HIGH FORWARD CONDUCTANCE SWITCHING DIODE
- VOIDLESS\* HERMETICALLY SEALED GLASS PACKAGE

#### MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C  
Storage Temperature: -65°C to +200°C  
Surge Current: 4 Amps ( $t_p = 1 \mu s$ )  
Leakage Current: 100nA @ 75V, 25°C.

#### ELECTRICAL CHARACTERISTICS

at 25°C unless otherwise specified.

$V_{(BR)}$	$V_{RWM}$ (working)	$I_O$ (note 1)	$I_t$ (surge) (1 sec)	$I_t$ (surge) (1 $\mu$ sec)	$T_{OP}$	$T_{STG}$
Vdc	V(pk)	mAdc	A	A	°C	°C
80	75	300	0.5	4.0	-65 to +175	-65 to +200

CAPACITANCE $V_R = 0$ Volts $V_{sig} = 50$ mVpp $100KHz \leq f \leq 1$ MHz	$V_{F1}$ @ $I_F = 250 \mu$ Adc	$V_{F2}$ @ $I_F = 1.0$ mA	$V_{F3}$ @ $I_F = 10$ mA	$V_{F4}$ @ $I_F = 20$ mA	$V_{F5}$ @ $I_F = 300$ mA (pulse)	$t_{rr}$ @ $I_F = I_{FR}$ 10mAdc $R_L = 100$ ohms
pF	Vdc	Vdc	Vdc	Vdc	Vdc	ns
4 max.	.47 - .56	.52 - .60	.64 - .72	.67 - .77	1.1 max.	6.0 max.

OTE 1: DERATE 2.0 mAdc/°C For  $T_A$  Above 25°C.

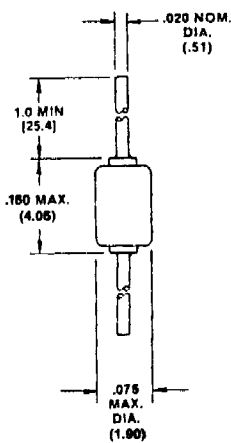
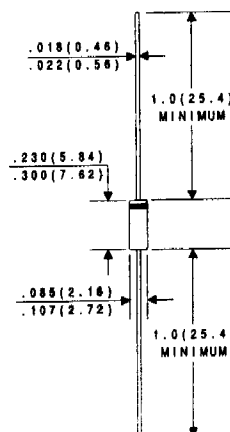


FIGURE 1  
PACKAGE DO-35

DO-35 Package



DO-7 Package