

NEW JERSEY Semi-Conductor Products, Inc.

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

1N5802
1N5804
1N5806

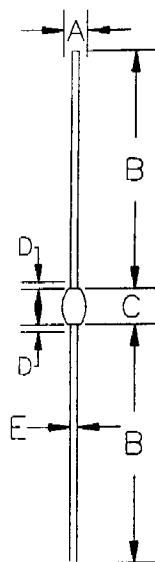
TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

AXIAL LEADED HERMETICALLY SEALED SUPERFAST RECTIFIER DIODE

- Very low reverse recovery time
- Hermetical sealed in Metoxillite fused metal oxide
- Low switching losses
- Soft, non-snap off, recovery characteristics
- Very low forward voltage drop
- $V_R = 50 - 150V$
- $I_F = 2.5A$
- $t_{rr} = 25nS$
- $I_R = 1\mu A$

ABSOLUTE MAXIMUM RATINGS (@ 25°C unless otherwise specified)

	Symbol	1N5802	1N5804	1N5806	Unit
Working reverse voltage	V_{RWM}	50	100	150	V
Repetitive reverse voltage	V_{RRM}	50	100	150	V
Average forward current (@ 75°C, lead length = 0.375")	$I_{F(AV)}$	← 2.5 →			A
Repetitive surge current (@ 55°C in free air, lead length 0.375")	I_{FRM}	← 14 →			A
Non-repetitive surge current ($t_p = 8.3mS$, @ V_R & T_{jmax})	I_{FSM}	← 35 →			A
Storage temperature range	T_{STG}	← -65 to +200 →			°C
Operating temperature range	T_{OP}	← -65 to +175 →			°C



DIM ^N	Dimensions				Note
	Millimeters		Inches		
	MIN	MAX	MIN	MAX	
A	1.65	2.16	.065	.085	-
B	17.8	33.0	0.70	1.30	-
C	3.18	6.35	.125	0.250	-
D	-	0.80	-	.030	1
E	0.69	0.81	0.027	0.032	-

Note:

(1) Lead diameter uncontrolled over this region.

Weight = 0.013oz



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages