

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

1N3643 thru 1N3647 1N5181 thru 1N5184

FEATURES

- Microminiature package.
- Voidless hermetically sealed glass package.
- Triple layer passivation.
- Metallurgically bonded.
- Ultra fast recovery.
- Lowest reverse leakage available.
- Lowest thermal resistance available.
- Maximum breakdown voltage per die.
- Absolute high voltage/high temperature stability.
- Meets or exceeds requirements of MIL-S-19500 and MIL-STD-750.

ABSOLUTE MAXIMUM RATINGS

Operating Temperature: -65°C to $+175^{\circ}\text{C}$.
Storage Temperature: -65°C to $+175^{\circ}\text{C}$.

SPECIFICATIONS

Electrical Characteristics

TYPE	PEAK INVERSE VOLTAGE (MIN.) PIV	AVERAGE RECTIFIED CURRENT I_o		FORWARD VOLTAGE (MAX.) V_F (SEE NOTES)	REVERSE CURRENT (MAX.) I_R @ PIV				SURGE CURRENT (MAX.)
		mA			μ A				
		VOLTS			VOLTS				
		55°C	100°C		25°C	55°C	125°C	175°C	
1N3643	1000	250	150	5.0(1)	5	—	—	—	14
1N3644	1500	250	150	5.0(1)	5	—	—	—	14
1N3645	2000	250	150	5.0(1)	5	—	—	—	14
1N3646	2500	250	150	5.0(1)	5	—	—	—	14
1N3647	3000	250	150	5.0(1)	5	—	—	—	14
1N4254	1500	250	150	3.5(2)	1	—	20	—	10
1N4255	2000	250	150	3.5(2)	1	—	20	—	10
1N4256	2500	250	150	3.5(2)	1	—	20	—	10
1N4257	3000	250	150	3.5(2)	1	—	20	—	10
1N5181	4000	100	60	10(2)	—	5	—	1000	4
1N5182	5000	100	60	10(2)	—	5	—	1000	4
1N5183	7500	100	60	10(2)	—	5	—	1000	4
1N5184	10,000	100	60	10(2)	—	5	—	1000	4

NOTE 1: V_F @ 250mA

NOTE 2: V_F @ 100mA

MECHANICAL CHARACTERISTICS

Case: Hermetically sealed hard glass.
Lead Material: Tinned copper.
Marking: Body painted, alpha numeric.
Polarity: Cathode band.

HIGH VOLTAGE RECTIFIERS

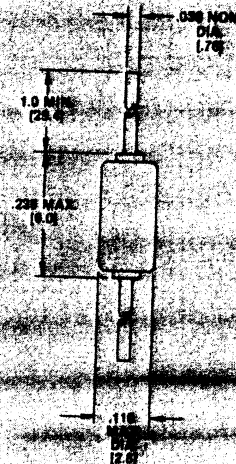


FIGURE 1



Quality Semi-Conductors