

1N3643 thru 1N3647
1N4254 thru 1N4257
1N5181 thru 1N5184

FEATURES

- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- LOWEST REVERSE LEAKAGE AVAILABLE
- LOWEST THERMAL RESISTANCE AVAILABLE
- MAXIMUM BREAKDOWN VOLTAGE PER DIE
- ABSOLUTE HIGH VOLTAGE / HIGH TEMPERATURE STABILITY

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C

ELECTRICAL CHARACTERISTICS

TYPE	WORKING PEAK REVERSE VOLTAGE V _{RRM}	AVERAGE RECTIFIED CURRENT I _F		FORWARD VOLTAGE (MAX.) V _F (SEE NOTES)	REVERSE CURRENT (MAX.) I _R @ V _{RRM}				SURGE CURRENT (MAX.)
		mA			μA				
		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

**HIGH VOLTAGE
RECTIFIERS**

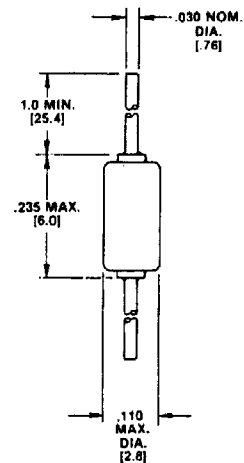


FIGURE 1
Package S

**MECHANICAL
CHARACTERISTICS**

CASE: Hermetically sealed hard glass.

LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.



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 customers to verify that datasheets are current before placing orders.