

**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 <sub>RM</sub>	AVERAGE RECTIFIED CURRENT I <sub>o</sub>		FORWARD VOLTAGE (MAX.) V <sub>F</sub> (SEE NOTES)	REVERSE CURRENT (MAX.) I <sub>R</sub> @ V <sub>RM</sub>				SURGE CURRENT (MAX.)
		mA			μA				
		55°C	100°C		25°C	55°C	125°C	175°C	
	VOLTS			VOLTS					AMPS
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<sub>F</sub> @ 250mA

NOTE 2: V<sub>F</sub> @ 100mA

**HIGH VOLTAGE  
RECTIFIERS**

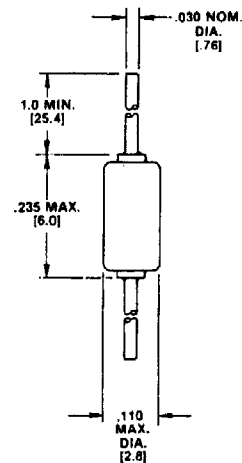


FIGURE 1  
Package S

**MECHANICAL  
CHARACTERISTICS**

CASE: Hermetically sealed hard glass.

LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

