



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, CA 90638
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SZN935 – SZN940

DESIGNER'S DATA SHEET

Part Number / Ordering Information^{1/}

SZN9

Screening^{2/}

— = Not Screened
 TX = TX Level
 TXV = TXV Level
 S = S Level

Package Type

— = Axial Leaded

Operating Temperature Range

— = 0°C to +75°C
 A = -55°C to +100°C
 B = -55°C to +150°C

Effective Temperature Coefficient

See electrical characteristics table

9 VOLT TEMPERATURE COMPENSATED ZENER REFERENCE DIODE

FEATURES:

- Hermetically Sealed in Glass
- Low Temperature Coefficient:
0.0002%/°C - 0.01%/°C
- Replacements for 1N935, 1N936, 1N937,
1N938, 1N939, and 1N940
- TX, TXV, and S Level Screening Available^{2/}

Maximum Ratings	Symbol	Value	Units
Storage Temperature	T _{STG}	-65 to +175	°C
Power Dissipation	P _D	500	mW
Maximum Current	I _{ZM}	50	mA

Electrical Characteristics @ 25°C

PART NUMBER	Nominal Zener Voltage ^{3/} V _Z @ I _{ZT} V	Zener Test Current I _{ZT} mA	Maximum Zener Impedance ^{4/} Z _{ZT} @ I _{ZT} Ω	Maximum Reverse Current I _R @ 6 V μA	Voltage Temperature Stability ^{3/5/} ΔV _{ZT} mV	Operating Temperature Range °C	Effective Temperature Coefficient α _{VZ} %/°C
SZN935	8.55 -9.45	7.5	20	10	67	0 to +75	0.01
SZN935A	8.55 -9.45	7.5	20	10	139	-55 to +100	0.01
SZN935B	8.55 -9.45	7.5	20	10	184	-55 to +150	0.01
SZN936	8.55 -9.45	7.5	20	10	33	0 to +75	0.005
SZN936A	8.55 -9.45	7.5	20	10	69	-55 to +100	0.005
SZN936B	8.55 -9.45	7.5	20	10	92	-55 to +150	0.005
SZN937	8.55 -9.45	7.5	20	10	13	0 to +75	0.002
SZN937A	8.55 -9.45	7.5	20	10	27	-55 to +100	0.002
SZN937B	8.55 -9.45	7.5	20	10	37	-55 to +150	0.002
SZN938	8.55 -9.45	7.5	20	10	6	0 to +75	0.001
SZN938A	8.55 -9.45	7.5	20	10	13	-55 to +100	0.001
SZN938B	8.55 -9.45	7.5	20	10	18	-55 to +150	0.001
SZN939	8.55 -9.45	7.5	20	10	3	0 to +75	0.0005
SZN939A	8.55 -9.45	7.5	20	10	7	-55 to +100	0.0005
SZN939B	8.55 -9.45	7.5	20	10	9	-55 to +150	0.0005
SZN940	8.55 -9.45	7.5	20	10	1.3	0 to +75	0.0002
SZN940A	8.55 -9.45	7.5	20	10	2.7	-55 to +100	0.0002
SZN940B	8.55 -9.45	7.5	20	10	3.7	-55 to +150	0.0002

NOTES: 1/ For ordering information, price, and availability – contact factory.

2/ Screening based on MIL-PRF-19500. Screening flows available on request.

3/ Voltage measurements to be performed 15 sec. after application of DC current.

4/ Zener impedance is derived from the AC voltage divided by the AC current with RMS value of 10% of DC Zener test current superimposed on the test current.

5/ The maximum allowable change observed over the entire temperature range i.e., the diode voltage will not exceed the specified mV change at any discrete temperature between the established limits.

NOTE: All specifications are subject to change without notification.
 SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: Z00020B

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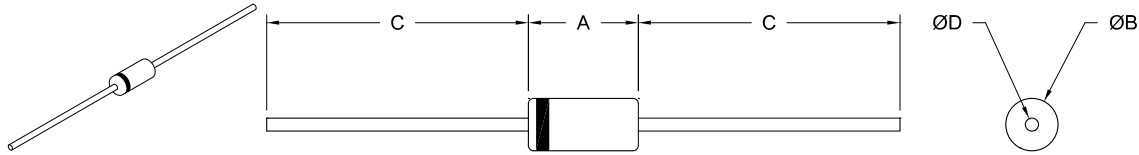


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SZN935 – SZN940

CASE OUTLINE: Axial Leaded



DIM	MIN	MAX
A	0.120	0.200
B	0.055	0.090
C	1.000	1.500
D	0.018	0.022

*Dimensions in inches

**All dimensions are prior to soldering

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