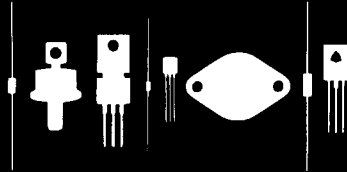


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145 Adams Avenue
Hauppauge, New York 11788



1N935B
1N936B
1N937B
1N938B
1N939B

TEMPERATURE COMPENSATED
ZENER DIODE

JEDEC DO-7 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N935B Series types are temperature compensated Zener Diodes designed for applications where long-term voltage stability is required.

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

	<u>SYMBOL</u>		<u>UNIT</u>
Power Dissipation Operating and Storage Junction Temperature	P_D	500	mW
Junction Temperature	T_J, T_{stg}	-65 TO +175	$^\circ\text{C}$
Tolerance		± 5	%

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

<u>TYPE NO.</u>	<u>ZENER VOLTAGE</u>	<u>ZENER TEST CURRENT</u>	<u>MAX. ZENER IMPEDANCE</u>	<u>VOLTAGE TEMP. STABILITY*</u>	<u>TEMPERATURE COEFFICIENT†</u>
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$\Delta V_Z \text{ MAX}$	$\% / ^\circ\text{C}$
	<u>V</u>	<u>mA</u>	Ω	<u>mV</u>	
1N935B	9.0	7.5	20	184	0.01
1N936B	9.0	7.5	20	92	0.005
1N937B	9.0	7.5	20	37	0.002
1N938B	9.0	7.5	20	18	0.001
1N939B	9.0	7.5	20	9	0.0005

* The Maximum Allowable change observed over the entire temperature range (-55 TO +150 $^\circ\text{C}$)

† Typical Value

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145 Adams Avenue
Hauppauge, NY 11788 USA
Tel: (631) 435-1110 • Fax: (631) 435-1824
www.centrasemi.com