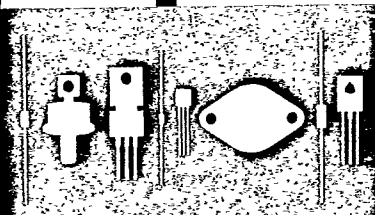


Central
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1N941B
1N942B
1N943B
1N944B
1N945BTEMPERATURE COMPENSATED
ZENER DIODE

JEDEC DO-7 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N941B 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	P_D	500	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +175	$^\circ\text{C}$
Tolerance		± 5	%

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

TYPE NO.	ZENER VOLTAGE	ZENER TEST CURRENT	MAX. ZENER IMPEDANCE	VOLTAGE TEMP. STABILITY*	TEMPERATURE COEFFICIENT†
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$\Delta V_Z \text{ MAX}$	
	<u>V</u>	<u>mA</u>	<u>Ω</u>	<u>mV</u>	<u>%/°C</u>
1N941B	11.7	7.5	30	239	0.01
1N942B	11.7	7.5	30	120	0.005
1N943B	11.7	7.5	30	47	0.002
1N944B	11.7	7.5	30	24	0.001
1N945B	11.7	7.5	30	12	0.0005

* The Maximum Allowable change observed over the entire temperature range
(-55 TO +150°C)

† Typical Value