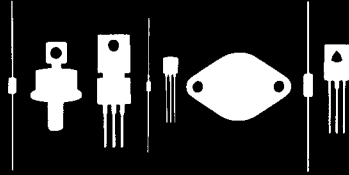


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145 Adams Avenue  
Hauppauge, New York 11788



1N941B  
1N942B  
1N943B  
1N944B  
1N945B

TEMPERATURE 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 Operating and Storage Junction Temperature	$P_D$	500	mW
Tolerance	$T_J, T_{stg}$	-65 TO +175	$^\circ\text{C}$
		$\pm 5$	%

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>
	$V_Z @ I_{ZT}$	$I_{ZT}$	$Z_{ZT} @ I_{ZT}$	$\Delta V_Z \text{ MAX}$	
	<u>V</u>	<u>mA</u>	<u><math>\Omega</math></u>	<u>mV</u>	<u>%/<math>^\circ\text{C}</math></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 $^\circ\text{C}$ )

† Typical Value

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