

Central
Semiconductor Corp.

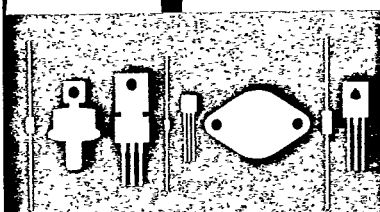
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145 Adams Avenue
Hauppauge, New York 11788

61 DE 1989963 0000271 9



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°C)

	SYMBOL		UNIT
Power dissipation	P _D	500	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 TO +175	°C
Tolerance		±5	%

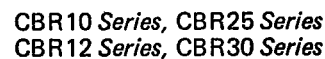
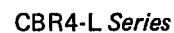
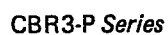
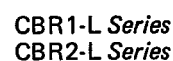
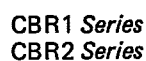
ELECTRICAL CHARACTERISTICS (T_A=25°C)

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}	Δ V _Z MAX	%/°C
	<u>V</u>	<u>mA</u>	<u>Ω</u>	<u>mV</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

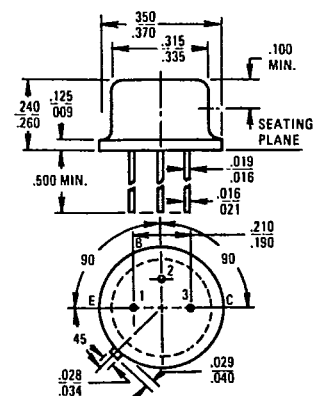
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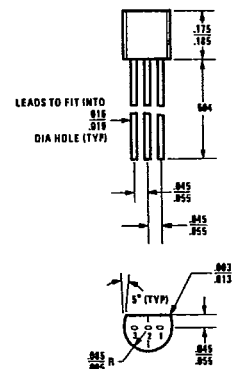
Drawings Not To Scale

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TO-39



TO-92



TO-106

