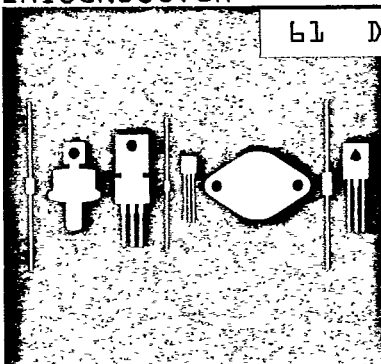


Central
Semiconductor Corp.
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145 Adams Avenue
Hauppauge, New York 11788

61 DE 1989963 0000277 0



1N4678 THRU 1N4714 *D*
LOW LEVEL SILICON ZENER DIODE

JEDEC DO-7 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4678 Series types are Silicon Zener Diodes designed for applications requiring an extremely low operating current (50 μ A), and low leakage.

ABSOLUTE MAXIMUM RATINGS

SYMBOL

UNITS

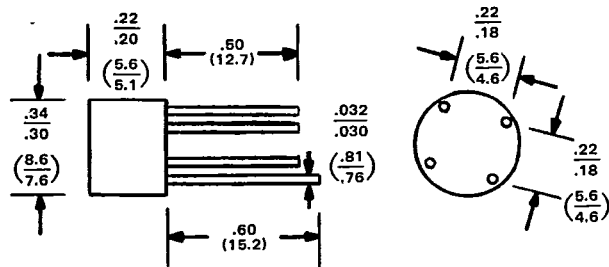
Power Dissipation(@T _A =50°C)	P _D	250	mW
Operating and Storage Temperature	T _J , T _{STG}	-65 TO +200	°C
Tolerance (No Suffix)		±5	%
Tolerance ("C" Suffix)		±2	%
Tolerance ("D" Suffix)		±1	%

ELECTRICAL CHARACTERISTICS (T_A=25°C):

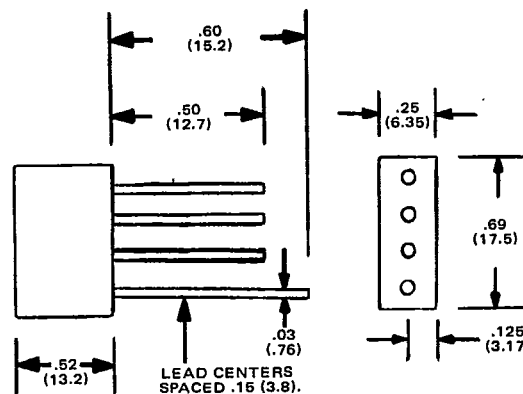
JEDEC Type No.	Nominal Zener Voltage V _Z @50 μ A (volts)	Max. Reverse Leakage Current I _R @ V _R (uAdc) (Vdc)	Max. Regulation Factor 100uAdc to 10uAdc Δ V _Z (volts)	Maximum Regulator Current I _{ZM} (mAdc)	JEDEC Type No.	Nominal Zener Voltage V _Z @50 μ A (volts)	Max. Reverse Leakage Current I _R @ V _R (uAdc) (Vdc)	Max. Regulation Factor 100uAdc to 10uAdc Δ V _Z (volts)	Maximum Regulator Current I _{ZM} (mAdc)
1N4678	1.8	7.5 1.0	0.70	120.0	1N4698	11.0	0.05 8.4	0.11	21.6
1N4679	2.0	5.0 1.0	0.70	110.0	1N4699	12.0	0.05 9.1	0.12	20.4
1N4680	2.2	4.0 1.0	0.75	100.0	1N4700	13.0	0.05 9.8	0.13	19.0
1N4681	2.4	2.0 1.0	0.80	95.0	1N4701	14.0	0.05 10.6	0.14	17.5
1N4682	2.7	1.0 1.0	0.85	90.0	1N4702	15.0	0.05 11.4	0.15	16.3
1N4683	3.0	0.8 1.0	0.90	85.0	1N4703	16.0	0.05 12.1	0.16	15.4
1N4684	3.3	7.5 1.5	0.95	80.0	1N4704	17.0	0.05 12.9	0.17	14.5
1N4685	3.6	7.5 2.0	0.95	75.0	1N4705	18.0	0.05 13.6	0.18	13.2
1N4686	3.9	5.0 2.0	0.97	70.0	1N4706	19.0	0.05 14.4	0.19	12.5
1N4687	4.3	4.0 2.0	0.99	65.0	1N4707	20.0	0.01 15.2	0.20	11.9
1N4688	4.7	10.0 3.0	0.99	60.0	1N4708	22.0	0.01 16.7	0.22	10.8
1N4689	5.1	10.0 3.0	0.97	55.0	1N4709	24.0	0.01 18.2	0.24	9.9
1N4690	5.6	10.0 4.0	0.96	50.0	1N4710	25.0	0.01 19.0	0.25	9.5
1N4691	6.2	10.0 5.0	0.95	45.0	1N4711	27.0	0.01 20.4	0.27	8.8
1N4692	6.8	10.0 5.1	0.90	35.0	1N4712	28.0	0.01 21.2	0.28	8.5
1N4693	7.5	10.0 5.7	0.75	31.8	1N4713	30.0	0.01 22.8	0.30	7.9
1N4694	8.2	1.0 6.2	0.50	29.0	1N4714	33.0	0.01 25.0	0.33	7.2
1N4695	8.7	1.0 6.6	0.10	27.6					
1N4696	9.1	1.0 6.9	0.08	26.2					
1N4697	10.0	1.0 7.6	0.10	24.8					

CASE OUTLINE DRAWINGS

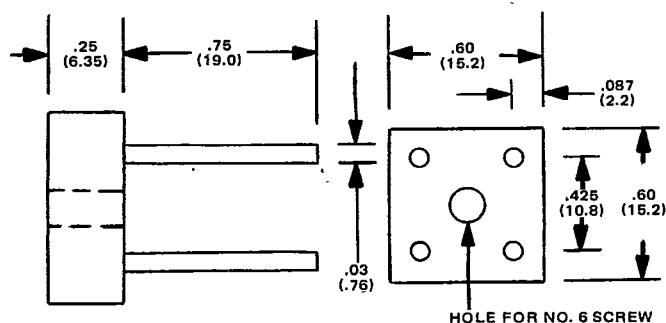
D



CASE A

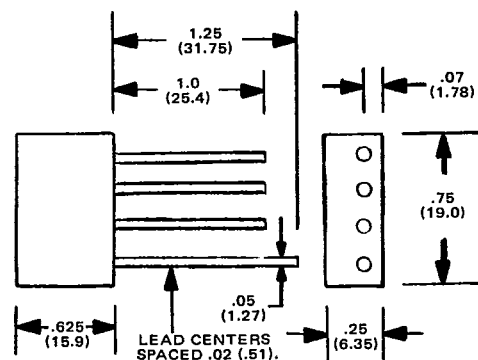
CBR1 Series
CBR2 Series

CASE B

CBR1-L Series
CBR2-L Series

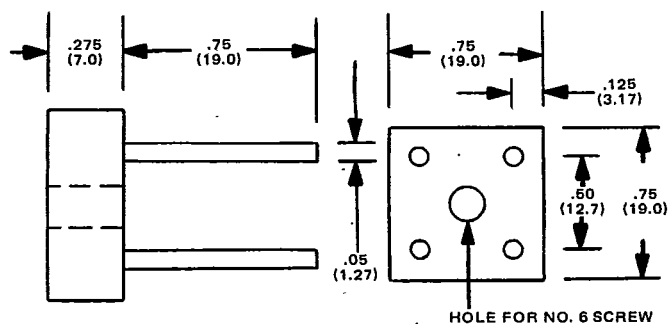
CASE C

CBR3-P Series



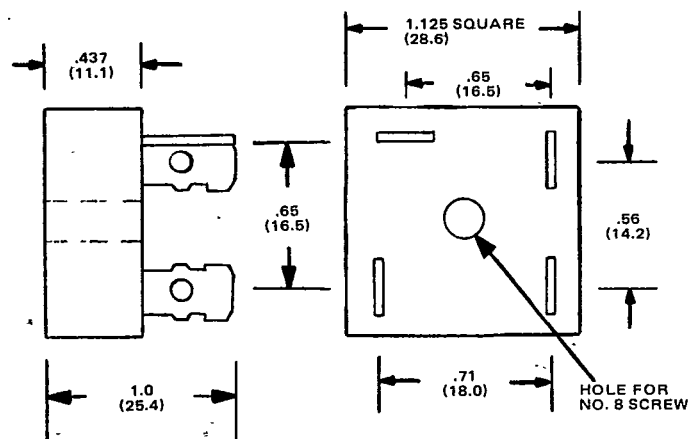
CASE D

CBR4-L Series



CASE E

CBR8 Series



CASE F

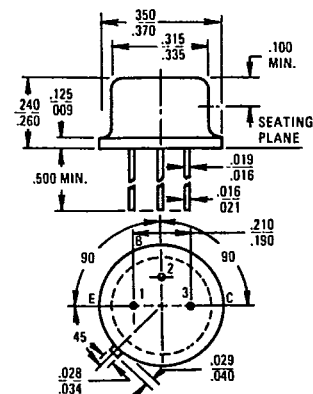
CBR10 Series, CBR25 Series
CBR12 Series, CBR30 Series

All Dimensions in Inches (Millimeters)

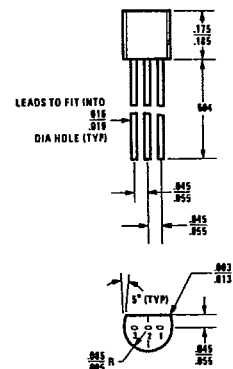
Drawings Not To Scale

カ

TO-39



TO-92



TO-106

