CMPZ4678 THRU CMPZ4717

SURFACE MOUNT
LOW LEVEL
SILICON ZENER DIODE
350mW, 5% TOLERANCE

SOT-23 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPZ4678 Series silicon zener diode is a high quality voltage regulator designed for applications requiring an extremely low operating current and low leakage.

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MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)	**SYMBOL**		**UNITS**
Power Dissipation	P_D	350	mW
Operating and Storage Temperature	T_J, T_{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C) V_F=1.5V MAX @ I_F=100mA (for all types)

TYPE	NOMINAL ZENER VOLTAGE V_Z @ I_{ZT}	TEST CURRENT I_{ZT}	MAXIMUM REVERSE LEAKAGE CURRENT I_R @ V_R		MAXIMUM VOLTAGE CHANGE* ΔV_Z	MAXIMUM ZENER CURRENT I_{ZM}
	V	µA	µA	V	V	mA
CMPZ4678	1.8	50	7.5	1.0	0.70	120.0
CMPZ4679	2.0	50	5.0	1.0	0.70	110.0
CMPZ4680	2.2	50	4.0	1.0	0.75	100.0
CMPZ4681	2.4	50	2.0	1.0	0.80	95.0
CMPZ4682	2.7	50	1.0	1.0	0.85	90.0
CMPZ4683	3.0	50	0.8	1.0	0.90	85.0
CMPZ4684	3.3	50	7.5	1.5	0.95	80.0
CMPZ4685	3.6	50	7.5	2.0	0.95	75.0
CMPZ4686	3.9	50	5.0	2.0	0.97	70.0
CMPZ4687	4.3	50	4.0	2.0	0.99	65.0
CMPZ4688	4.7	50	10	3.0	0.99	60.0
CMPZ4689	5.1	50	10	3.0	0.97	55.0
CMPZ4690	5.6	50	10	4.0	0.96	50.0
CMPZ4691	6.2	50	10	5.0	0.95	45.0
CMPZ4692	6.8	50	10	5.1	0.90	35.0
CMPZ4693	7.5	50	10	5.7	0.75	31.8
CMPZ4694	8.2	50	1.0	6.2	0.50	29.0
CMPZ4695	8.7	50	1.0	6.6	0.10	27.4
CMPZ4696	9.1	50	1.0	6.9	0.08	26.2
CMPZ4697	10	50	1.0	7.6	0.10	24.8
CMPZ4698	11	50	0.05	8.4	0.11	21.6

* ΔV_Z=V_Z@ 100µA MINUS V_Z @ 10µA.

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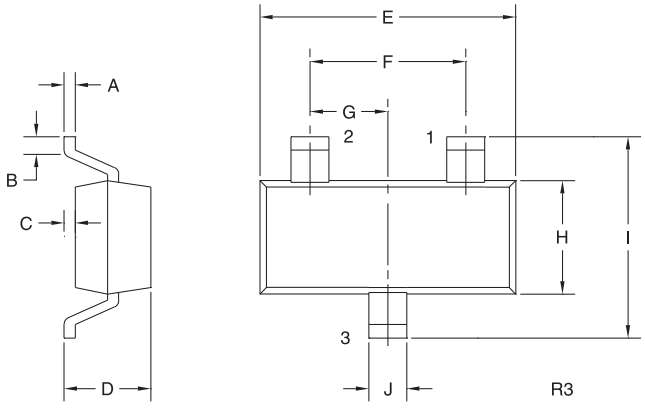
ELECTRICAL CHARACTERISTICS - Continued: (T_A=25°C) V_F=1.5V MAX @ I_F=100mA (for all types)

TYPE	NOMINAL ZENER VOLTAGE V_Z @ I_{ZT}	TEST CURRENT I_{ZT}	MAXIMUM REVERSE LEAKAGE CURRENT I_R @ V_R		MAXIMUM VOLTAGE CHANGE* ΔV_Z	MAXIMUM ZENER CURRENT I_{ZM}
	V	µA	µA	V	V	mA
CMPZ4699	12	50	0.05	9.1	0.12	20.4
CMPZ4700	13	50	0.05	9.8	0.13	19.0
CMPZ4701	14	50	0.05	10.6	0.14	17.5
CMPZ4702	15	50	0.05	11.4	0.15	16.3
CMPZ4703	16	50	0.05	12.1	0.16	15.4
CMPZ4704	17	50	0.05	12.9	0.17	14.5
CMPZ4705	18	50	0.05	13.6	0.18	13.2
CMPZ4706	19	50	0.05	14.4	0.19	12.5
CMPZ4707	20	50	0.01	15.2	0.20	11.9
CMPZ4708	22	50	0.01	16.7	0.22	10.8
CMPZ4709	24	50	0.01	18.2	0.24	9.9
CMPZ4710	25	50	0.01	19.0	0.25	9.5
CMPZ4711	27	50	0.01	20.4	0.27	8.8
CMPZ4712	28	50	0.01	21.2	0.28	8.5
CMPZ4713	30	50	0.01	22.8	0.30	7.9
CMPZ4714	33	50	0.01	25.0	0.33	7.2
CMPZ4715	36	50	0.01	27.3	0.36	6.6
CMPZ4716	39	50	0.01	29.6	0.39	6.1
CMPZ4717	43	50	0.01	32.6	0.43	5.5

* ΔV_Z=V_Z @ 100µA MINUS V_Z @ 10µA.

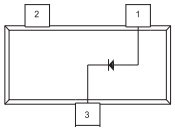
SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

LEAD CODE:
1) Anode
2) No Connection
3) Cathode



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R8 (3-February 2010)