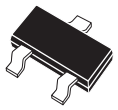
CMPZ4678
THRU
CMPZ4717
SURFACE MOUNT
350mW LOW LEVEL
SILICON ZENER DIODE
5% TOLERANCE



SOT-23 CASE

Central™
Semiconductor Corp.

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.

MARKING CODE: CONSULT FACTORY

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 NO.	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}
	VOLTS	µA	µA	VOLTS	VOLTS	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

* Available on special order only, please consult factory. **ΔV_Z=V_Z @ 100µA MINUS V_Z @ 10µA.

R6 (4-March 2004)

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350mW LOW LEVEL SILICON ZENER DIODE
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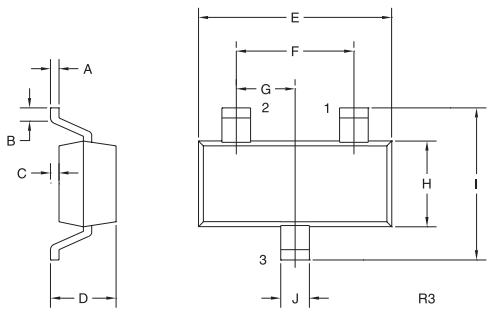
TYPE NO.	NOMINAL ZENER VOLTAGE V_Z @ I_{ZT}	TEST CURRENT I_{ZT}	MAXIMUM REVERSE LEAKAGE CURRENT I_R @ V_R		MAXIMUM VOLTAGE CHANGE** ΔV_Z	MAXIMUM ZENER CURRENT I_{ZM}
	VOLTS	µA	µA	VOLTS	VOLTS	mA
CMPZ4699	12	50	0.05	9.1	0.12	20.4
CMPZ4700	13	50	0.05	9.8	0.13	19.0
CMPZ4701	14	50	0.05	10.6	0.14	17.5
CMPZ4702	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

* Available on special order only, please consult factory.
**ΔV_Z=V_Z @ 100µA MINUS V_Z @ 10µA.

SOT-23 CASE - MECHANICAL OUTLINE

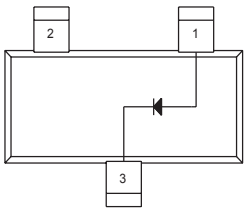


DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

MARKING CODE:
CONSULT FACTORY

PINOUT



LEAD CODE:
1) ANODE
2) NO CONNECTION
3) CATHODE

R6 (4-March 2004)