

[1ZB Series]

Silicon Zener Diodes 稳压二极管 ZENER

特性/机械性能:

FEATURES/MECHANICAL DATE

◆ 小电流下的齐纳阻抗低 Zener shed little electric impedance is low

◆ 高可靠性 High reliability

◆ 耐焊接热: 250℃/10S, 引出端0.375" (9.5mm) 处。

Welding heat resistance: 250 °C / 10S, terminal 0.375 "(9.5 mm).

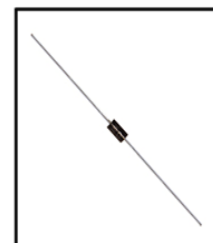
◆ 封 装: 模塑封装 Case: Molded plastic

◆ 引 线: 电镀可焊性符合MIL-STD-202E, 方法208C

Lead: Axial lead solderable per MIL-STD-202, method 208 guaranteed

◆ 极 性: 色环表示阴极 Polarity: Color band denotes cathode

◆ 安装位置: 任意 Mounting position: Any



D0-41

最大额定值及电气特性:

MAXIMUM RATINGS AND CHARACTERISTICS

测量环境温度为25℃, 除非另有规定。

Rating at 25℃ ambient temperature unless otherwise specified.

参 数 名 称	Papt Number	符号Symbol	数值Value	单位Unit
齐纳电流	The zener current	I _Z MAX	见表See table	mA
耗散功率@Ta=75℃	Power Dissipation@Ta=75℃	P _t	1.0	W
正向电压@IF=200mA	Forward voltage@IF=200mA	V _F	1.2	V
使用温度范围	Operating Temperature Range	T _J	-50~+150	℃
储存温度范围	Storage Temperature Range	T _{STG}	-50~+175	℃

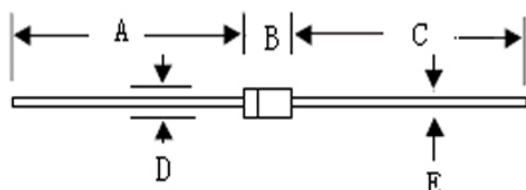
注 释: 距离管体9.5mm引线处的温度, 设定为环境温度。

Notes: The distance between the pipe body. The temperature of the 9.5 mm wire, set to ambient temperature.

产品外形尺寸:

PRODUCT APPEARANCE SIZE

D0-41



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.0		25.4	
B	0.161	0.205	4.1	5.2
C	1.0		25.4	
D	0.080	0.107	2.0	2.7
E	0.028	0.034	0.71	0.86

电特性:
ELECTRICAL CHARACTERISTICS

型 号 TYPE	齐纳电压 Zener voltage			测试电流 Test current	齐纳阻抗 dynamic resistance	温度系数 Temperature coefficient		最大反向漏 电 流 Maximum Leakage Current @VR	
	Vz min	Vz TYP	Vz max	I ZK	ZZTmax @IZT	α VZ TYP @IZT	α VZmax @IZT	VR	IR @T=25℃
	V	V	V	mA	Ω	mv /℃	mv /℃	V	μ A
1ZB6.8	6.2	6.8	7.4	10	60	3	4	3.0	10
1ZB7.5	6.8	7.5	8.3	10	30	4	5	4.5	10
1ZB8.2	7.4	8.2	9.1	10	30	4	6	4.9	10
1ZB9.1	8.2	9.1	10.1	10	30	5	8	5.5	10
1ZB10	9	10	11	10	30	6	9	6.0	10
1ZB11	9.9	11	12.1	10	30	7	11	7.0	10
1ZB12	10.8	12	13.2	10	30	8	13	8.0	10
1ZB13	11.7	13	14.3	10	30	9	14	9.0	10
1ZB15	13.5	15	16.5	10	30	11	17	10.0	10
1ZB16	14.4	16	17.6	10	30	12	19	11.0	10
1ZB18	16.2	18	19.8	10	30	14	23	13.0	10
1ZB20	18	20	22	10	30	16	26	14.0	10
1ZB22	19.8	22	24.2	10	30	18	28	16.0	10
1ZB24	21.6	24	26.4	10	30	20	32	17.0	10
1ZB27	24.3	27	29.7	10	30	23	36	19.0	10
1ZB30	27	30	33	10	30	25	40	21.0	10
1ZB33	29.7	33	36.3	10	30	26	41	26.4	10
1ZB36	32.4	36	39.6	9	30	28	45	28.8	10
1ZB43	38.7	43	47.3	7	40	33	53	34.4	10
1ZB47	42.3	47	51.7	6	65	38	60	37.6	10
1ZB51	45.9	51	56.1	6	65	43	68	40.8	10
1ZB68	61.2	68	74.8	4	120	57	90	54.4	10
1ZB75	67.5	75	82.5	4	150	66	104	60.0	10
1ZB82	73.8	82	90.2	3	170	71	113	65.4	10
1ZB100	90	100	110	3	300	87	138	80.0	10
1ZB110	99	110	121	3	300	96	152	88.0	10
1ZB120	108	120	132	2	450	105	168	96.0	10
1ZB150	135	150	165	2	450	136	212	120	10
1ZB180	162	180	198	1.5	500	161	255	144	10
1ZB200	180	200	220	0.5	500	170	269	160	10
1ZB200-Y	190	200	210	0.5	500	170	269	160	10
1ZB200-Z	200	210	220	0.5	500	178	286	168	10
1ZB220	198	220	242	0.5	5000	200	309	176	10
1ZB220-Y	210	220	230	0.5	5000	200	309	176	10
1ZB220-Z	220	230	240	0.5	5000	207	320	184	10
1ZB240	216	240	264	0.5	5000	215	325	192	10
1ZB240-Y	230	240	250	0.5	5000	215	325	216	10
1ZB240-Z	240	250	260	0.5	5000	225	338	225	10
1ZB270	243	270	297	0.5	5000	243	385	216	10
1ZB270-X	250	260	270	0.5	5000	221	350	234	10

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	Vz min	Vz TYP	Vz max	IZK	ZZTmax @IZT	α_{VZ} TYP @IZT	α_{VZ} max @IZT	VR	IR @T=25°C
	V	V	V	mA	Ω	mv /°C	mv /°C	V	μA
1ZB270-Y	260	270	280	0.5	5000	228	362	243	10
1ZB270-Z	270	280	290	0.5	5000	236	374	252	10
1ZB300	270	300	330	0.5	5000	270	428	240	10
1ZB300-X	280	290	300	0.5	5000	244	388	261	10
1ZB300-Y	290	300	310	0.5	5000	253	402	270	10
1ZB300-Z	300	310	320	0.5	5000	261	415	279	10
1ZB330	297	330	363	0.5	5000	296	470	264	10
1ZB330-X	310	320	330	0.5	5000	270	428	288	10
1ZB330-Y	320	330	340	0.5	5000	278	441	297	10
1ZB330-Z	330	340	350	0.5	5000	287	455	306	10
1ZB390	351	390	429	0.5	10000	350	555	312	10

标准型的齐纳电压值偏差为10%。The zener voltage value of the standard deviation is 10%;

特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

