


UNISONIC TECHNOLOGIES CO., LTD

ZD1.8 THRU ZD36

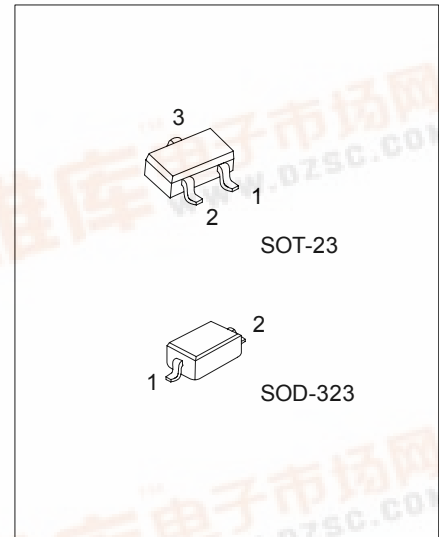
ZENER DIODE

ZD1.8 THRU ZD36 ZENER DIODES

FEATURES

*Compact, 2-pin(SOD-323) and 3-pin(SOT-23) mini-mold types for high-density mounting.

*High demand voltage range (1.8V~36V) is manufactured on high-efficient non-wire bonding production line.



*Pb-free plating product number: ZDxxL

ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
ZDxx-AE3-R	ZDxxL-AE3-R	SOT-23	NC	A	C	Tape Reel
ZDxx-CB2-R	ZDxxL-CB2-R	SOD-323	A	C	-	Tape Reel

Note:1. Pin assignment: A: Anode C: Cathode NC: No Connection

2. xx: Zener Voltage, refer to Marking Information.

ZDxxL-AE3-R (1)Packing Type (2)Package Type (3)Lead Plating (4)Zener Voltage		(1) R: Tape Reel (2) AE3: SOT-23, CB2: SOD-323 (3) L: Lead Free Plating Blank: Pb/Sn (4) refer to Marking Information
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MARKING INFORMATION

PACKAGE	VOLTAGE CODE				MARKING
SOT-23	1.8	5.1	10	20	
	2.4	5.6	11	22	
	2.5	6.0	12	24	
	3.3	6.2	13	25	
	3.9	6.8	15	27	
SOD-323	4.3	7.5	16	30	
	4.7	8.2	18	33	
		9.1		36	

ZD2.4 THRU ZD36

ZENER DIODE

■ ABSOLUTE MAXIMUM RATING (Ta=25°C , unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Total Power Dissipation (Ta=25°C)	P _D	225	mW
Derating above 25°C		1.8	mW/°C
Thermal Resistance Junction-Ambient	θ _{JA}	417	°C/W
Junction Temperature	T _J	+150	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

Note Absolute maximum ratings are those values beyond which the device could be permanently damaged.

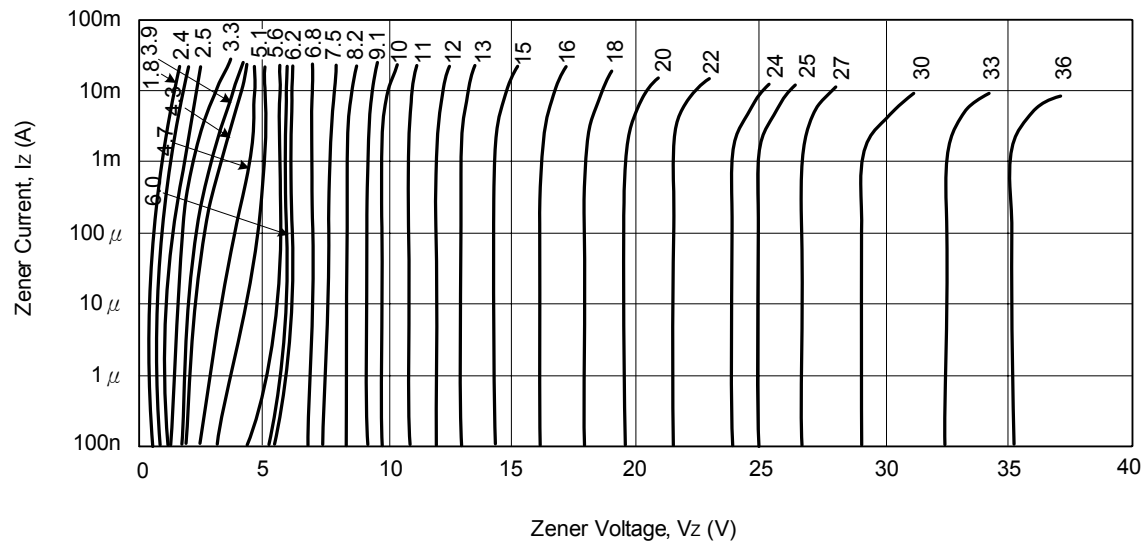
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise specified)

(VF = 0.9V Max @ IF = 10mA for all types.)

Device	Marking Code	Test Current	Zener Voltage	Z _{ZK} (Ω)		Z _{ZT} (Ω)		I _R (μA)	
		I _{ZT} (mA)	V _Z (V)	Max	I _Z (mA)	Max	I _Z (mA)	Max	@V _R (V)
ZD1.8	1.8	5	1.8±2.5%	2000	1.0	100	5	20.0	1.0
ZD2.4	2.4	5	2.4±2.5%	2000	1.0	100	5	20.0	1.0
ZD2.5	2.5	5	2.5±2.5%	2000	1.0	100	5	20.0	1.0
ZD3.3	3.3	5	3.3±2.5%	1000	1.0	100	5	10.0	1.0
ZD3.9	3.9	5	3.9±2.5%	1000	1.0	100	5	5.0	1.0
ZD4.3	4.3	5	4.3±2.5%	1000	1.0	100	5	5.0	1.0
ZD4.7	4.7	5	4.7±2.5%	800	0.5	100	5	2.0	1.0
ZD5.1	5.1	5	5.1±2.5%	500	0.5	80	5	2.0	1.5
ZD5.6	5.6	5	5.6±2.5%	200	0.5	60	5	1.0	2.5
ZD6.0	6.0	5	6.0±2.5%	100	0.5	60	5	1.0	2.5
ZD6.2	6.2	5	6.2±2.5%	100	0.5	60	5	1.0	3.0
ZD6.8	6.8	5	6.8±2.5%	60	0.5	40	5	0.5	3.5
ZD7.5	7.5	5	7.5±2.5%	60	0.5	30	5	0.5	4.0
ZD8.2	8.2	5	8.2±2.5%	60	0.5	30	5	0.5	5.0
ZD9.1	9.1	5	9.1±2.5%	60	0.5	30	5	0.5	6.0
ZD10	10	5	10±2.5%	60	0.5	30	5	0.1	7.0
ZD11	11	5	11±2.5%	60	0.5	30	5	0.1	8.0
ZD12	12	5	12±2.5%	80	0.5	30	5	0.1	9.0
ZD13	13	5	13±2.5%	80	0.5	37	5	0.1	10.0
ZD15	15	5	15±2.5%	80	0.5	42	5	0.1	11.0
ZD16	16	5	16±2.5%	80	0.5	50	5	0.1	12.0
ZD18	18	5	18±2.5%	80	0.5	65	5	0.1	13.0
ZD20	20	5	20±2.5%	100	0.5	85	5	0.1	15.0
ZD22	22	5	22±2.5%	100	0.5	100	5	0.1	17.0
ZD24	24	5	24±2.5%	120	0.5	120	5	0.1	19.0
ZD25	25	5	25±2.5%	130	0.5	130	5	0.1	19.0
ZD27	27	5	27±2.5%	150	0.5	150	5	0.1	21.0
ZD30	30	5	30±2.5%	200	0.5	200	5	0.1	23.0
ZD33	33	5	33±2.5%	250	0.5	250	5	0.1	25.0
ZD36	36	5	36±2.5%	300	0.5	300	5	0.1	27.0

■ TYPICAL CHARACTERISTIC CURVES



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