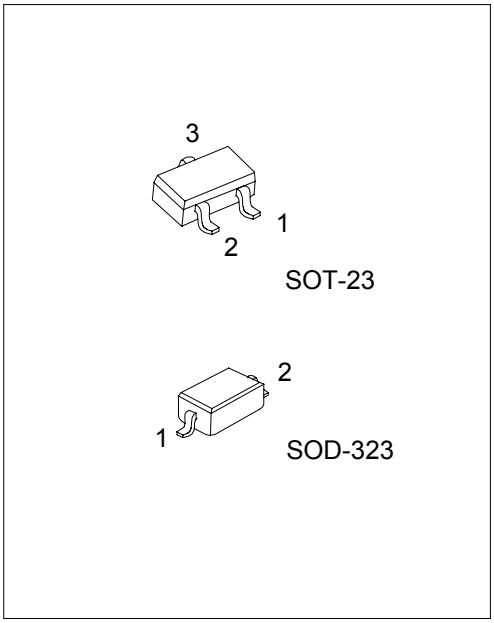
ZD2.4 THRU ZD36

ZENER DIODE

ZD2.4 THRU ZD36 ZENER DIODES



*Pb-free plating product number: ZDxxL

■ FEATURES

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

*High demand voltage range (2.4V~36V) is manufactured on high-efficient non-wire bonding production line.

■ ORDERING INFORMATION

Order Number		Package	Pin			Packing
Normal	Lead Free Plating		1	2	3	
ZDxx-AE3-R	ZDxxL-AE3-R	SOT-23	+	-	N	Tape Reel
ZDxx-CL2-R	ZDxxL-CL2-R	SOD-323	+	-		Tape Reel

Note:1.Pin assignment: +: Anode -: Cathode N: No Connection
2.xx: Zenar Voltage, refer to Marking Information.

ZDxxL-AE3-R (1)Packing Type (2)Package Type (3)Lead Plating (4)Zenar Voltage	(1) R: Tape Reel (2) AE3: SOT-23, CL2: SOD-323 (3) L: Lead Free Plating, Blank: Pb/Sn (4) refer to Marking Information

■ MARKING INFORMATION

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

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

PARAMETER	SYMBOL	RATINGS	UNIT
Total Power Dissipation (Ta=25℃)	P_D	225	mW
Derating above 25℃		1.8	mW/℃
Thermal Resistance Junction-Ambient	θ_{JA}	417	℃/W
Junction Temperature	T_J	+150	℃
Storage Temperature	T_{STG}	-40 ~ +150	℃

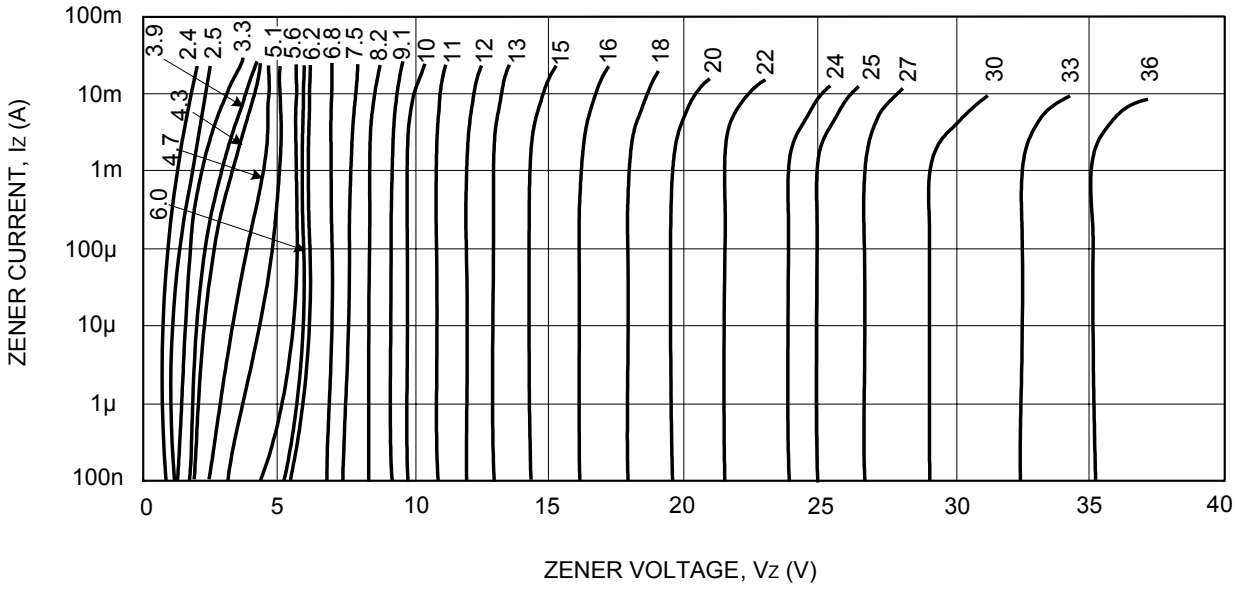
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

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

(V_F = 0.9V Max @ I_F = 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)
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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