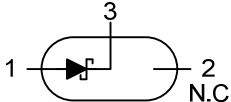
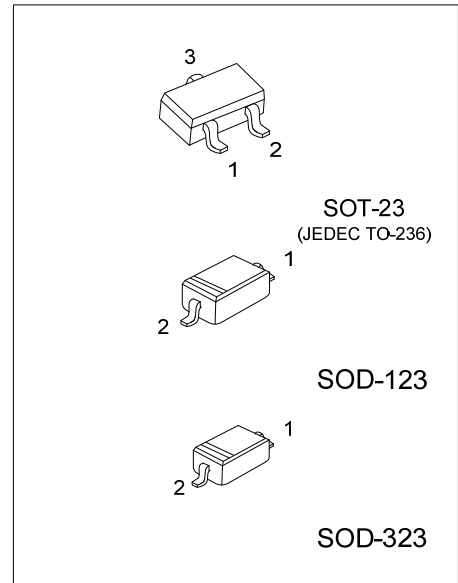


**ZD2.5 THRU ZD36****ZENER DIODE****ZD2.5 THRU ZD36 ZENER DIODES****■ FEATURES**

- * Compact, 2-pin (SOD-323 & SOD-123) and 3-pin (SOT-23) mini-mold types for high-density mounting.
- * High demand voltage range (2.5V~36V) is manufactured on high-efficient non-wire bonding production line.

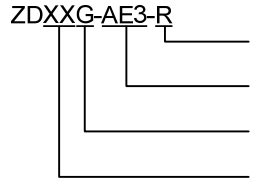
■ SYMBOL

SOT-23	SOD-123/SOD-323
	

**■ ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
ZDXXL-AE3-R	ZDXXG-AE3-R	SOT-23	A	NC	C	Tape Reel
ZDXXL-CA2-R	ZDXXG-CA2-R	SOD-123	A	C	-	Tape Reel
ZDXXL-CB2-R	ZDXXG-CB2-R	SOD-323	A	C	-	Tape Reel

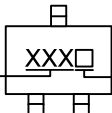
Notes: 1. Pin assignment: A: Anode C: Cathode NC: No Connection
2. XX: Zener Voltage, refer to Marking Information.

	(1) Packing Type (2) Package Type (3) Green Package (4) Zener Voltage	(1) R: Tape Reel (2) AE3: SOT-23, CA2: SOD-123, CB2: SOD-323 (3) G: Halogen Free and Lead Free, L: Lead Free (4) refer to Marking Information
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ZD2.5 THRU ZD36

ZENER DIODE

■ MARKING INFORMATION

PACKAGE	VOLTAGE CODE		MARKING
SOT-23	2.5	11	 Voltage Code ← XXX → L: Lead Free G: Halogen Free
	3.3	12	
	3.9	13	
	4.3	15	
	4.7	16	
	5.1	18	
	5.6	20	
	6.0	22	
SOD-123 SOD-323	6.2	24	 Voltage Code ← XXX → L: Lead Free G: Halogen Free
	6.8	25	
	7.5	27	
	8.2	30	
	9.1	33	
	10	36	

ZD2.5 THRU ZD36

ZENER DIODE

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C , unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Power Dissipation (T _A =25°C)	P _D	225	mW
Derating above 25°C		1.8	mW/°C
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.

■ THERMAL DATA

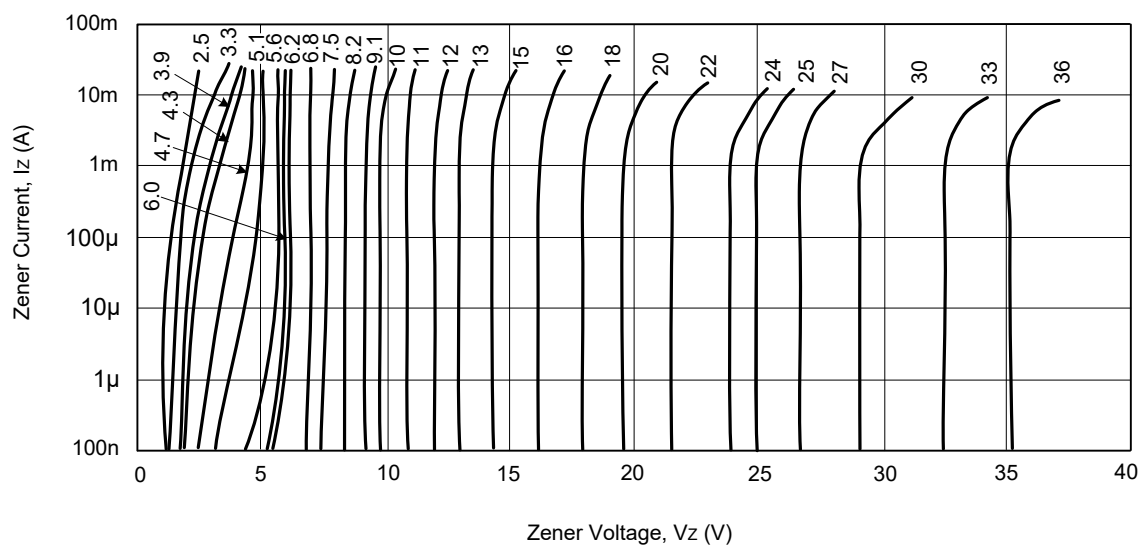
PARAMETER	SYMBOL	RATING	UNIT
Junction to Ambient	θ _{JA}	417	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A=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)
ZD2.5	2.5	5	2.5±5%	2000	1.0	100	5	20.0	1.0
ZD3.3	3.3	5	3.3±5%	1000	1.0	100	5	10.0	1.0
ZD3.9	3.9	5	3.9±5%	1000	1.0	100	5	5.0	1.0
ZD4.3	4.3	5	4.3±5%	1000	1.0	100	5	5.0	1.0
ZD4.7	4.7	5	4.7±5%	800	0.5	100	5	2.0	1.0
ZD5.1	5.1	5	5.1±5%	500	0.5	80	5	2.0	1.5
ZD5.6	5.6	5	5.6±5%	200	0.5	60	5	1.0	2.5
ZD6.0	6.0	5	6.0±5%	100	0.5	60	5	1.0	2.5
ZD6.2	6.2	5	6.2±5%	100	0.5	60	5	1.0	3.0
ZD6.8	6.8	5	6.8±5%	60	0.5	40	5	0.5	3.5
ZD7.5	7.5	5	7.5±5%	60	0.5	30	5	0.5	4.0
ZD8.2	8.2	5	8.2±5%	60	0.5	30	5	0.5	5.0
ZD9.1	9.1	5	9.1±5%	60	0.5	30	5	0.5	6.0
ZD10	10	5	10±5%	60	0.5	30	5	0.1	7.0
ZD11	11	5	11±5%	60	0.5	30	5	0.1	8.0
ZD12	12	5	12±5%	80	0.5	30	5	0.1	9.0
ZD13	13	5	13±5%	80	0.5	37	5	0.1	10.0
ZD15	15	5	15±5%	80	0.5	42	5	0.1	11.0
ZD16	16	5	16±5%	80	0.5	50	5	0.1	12.0
ZD18	18	5	18±5%	80	0.5	65	5	0.1	13.0
ZD20	20	5	20±5%	100	0.5	85	5	0.1	15.0
ZD22	22	5	22±5%	100	0.5	100	5	0.1	17.0
ZD24	24	5	24±5%	120	0.5	120	5	0.1	19.0
ZD25	25	5	25±5%	130	0.5	130	5	0.1	19.0
ZD27	27	5	27±5%	150	0.5	150	5	0.1	21.0
ZD30	30	5	30±5%	200	0.5	200	5	0.1	23.0
ZD33	33	5	33±5%	250	0.5	250	5	0.1	25.0
ZD36	36	5	36±5%	300	0.5	300	5	0.1	27.0

■ TYPICAL CHARACTERISTIC CURVES



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