

CONSTANT VOLTAGE REGULATION
APPLICATION. REFERENCE VOLTAGE
APPLICATION.

KDZ2.0WV~36WV

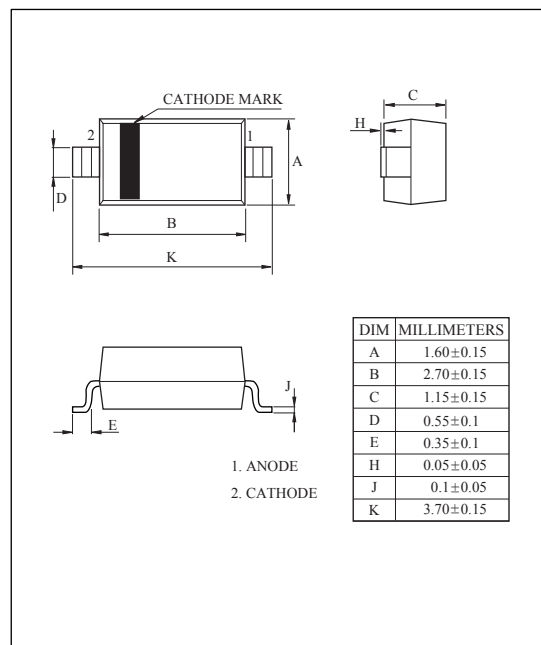
FEATURES

- Small Package : SOD-123
- Zener Voltage Tolerance
 - None Grade : About $\pm 6\%$.
 - Y Grade : About $\pm 2.5\%$.

APPLICATIONS

- Constant Voltage Regulation
- Reference Voltage Regulation

PACKAGE DIMENSION (SOD-123)



ORDERING INFORMATION

PART NUMBER	QTY PER Reel	Reel SIZE
KDZxxWV-RTK	3,000	7 inch

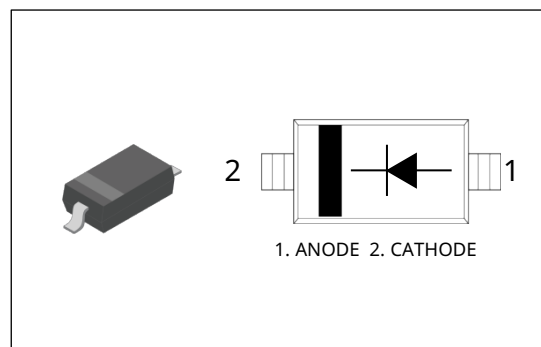
MARKING CODE

Type No.	Marking	Type No.	Marking	Type No.	Marking
KDZ2.0WV	2A	KDZ5.6WV	56	KDZ16WV	16
KDZ2.2WV	2B	KDZ6.2WV	62	KDZ18WV	18
KDZ2.4WV	2C	KDZ6.8WV	68	KDZ20WV	20
KDZ2.7WV	2D	KDZ7.5WV	75	KDZ22WV	22
KDZ3.0WV	30	KDZ8.2WV	82	KDZ24WV	24
KDZ3.3WV	33	KDZ9.1WV	91	KDZ27WV	A1
KDZ3.6WV	36	KDZ10WV	10	KDZ30WV	A2
KDZ3.9WV	39	KDZ11WV	11	KDZ33WV	A3
KDZ4.3WV	43	KDZ12WV	12	KDZ36WV	A4
KDZ4.7WV	47	KDZ13WV	13		
KDZ5.1WV	51	KDZ15WV	15		

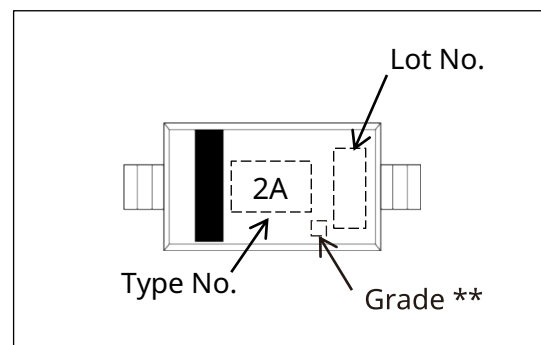
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Grade	Symbol
None	(Blank)
Y	●

PIN CONFIGURATION



MARKING CODE



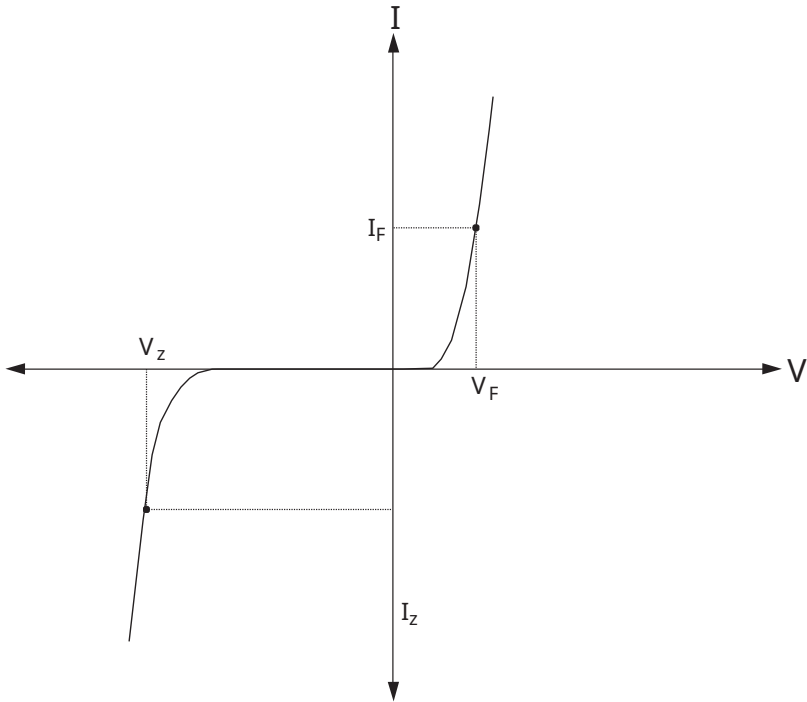
PRODUCT DATASHEET
ZENER DIODE – KDZ2.0WV~KDZ36WV

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P_D^*	500	mW
Junction Temperature	T_j	150	°C
Operating Temperature	T_{opr}	-55 ~ 150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

* Mounted on a glass epoxy circuit board of 4x4cm, pad dimension of 3.8x3.8cm

DEFINITIONS OF ELECTRICAL CHARACTERISTIC SYMBOL



ELECTRICAL CHARACTERISTICS (Ta=25°C)

TYPE No.	Grade	Zener Voltage V_z (V)			Dynamic Impedance Z_z (Ω)		KNEE Dynamic Impedance Z_{zk} (Ω)		Reverse Current I_R (μA)	
		Min.	Max.	I_z (mA)	MAX.	I_z (mA)	MAX.	I_z (mA)	MAX.	V_R (V)
KDZ2.0WV	-	1.85	2.15	5	100	5	1000	0.5	120	1.0
	Y	1.95	2.15							
KDZ2.2WV	-	2.05	2.38	5	100	5	1000	0.5	120	1.0
	Y	2.16	2.38							
KDZ2.4WV	-	2.28	2.60	5	100	5	1000	0.5	120	1.0
	Y	2.40	2.60							
KDZ2.7WV	-	2.50	2.90	5	110	5	1000	0.5	120	1.0
	Y	2.65	2.90							

PRODUCT DATASHEET

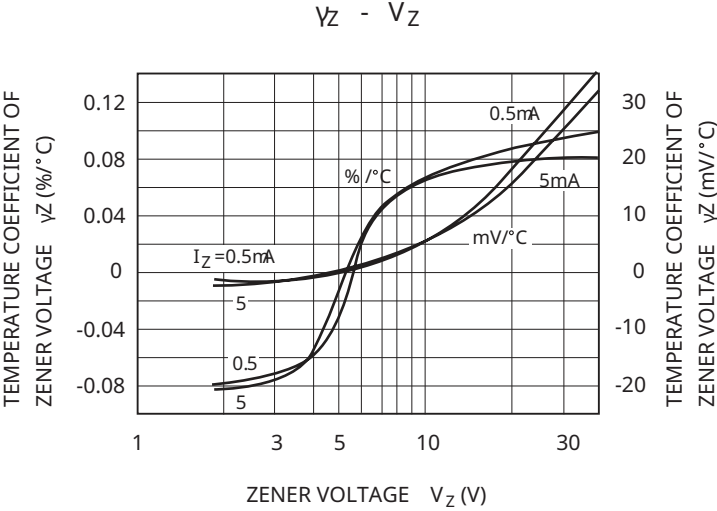
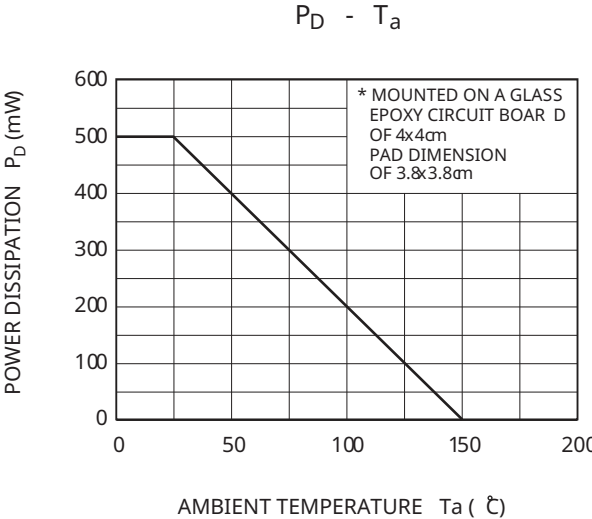
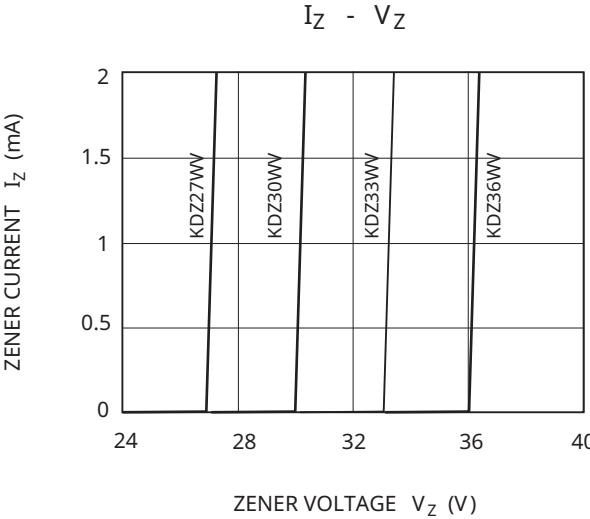
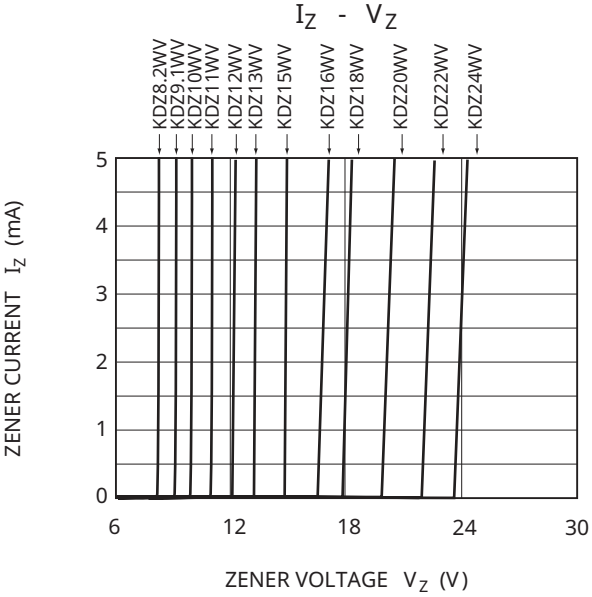
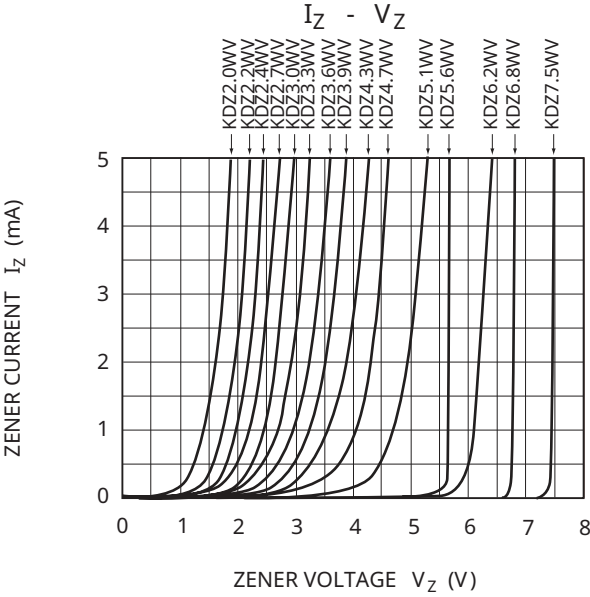
ZENER DIODE – KDZ2.0WV~KDZ36WV

ELECTRICAL CHARACTERISTICS (Ta=25°C)

TYPE No.	Grade	Zener Voltage Vz (V)			Dynamic Impedance Z _z (Ω)		KNEE Dynamic Impedance Z _{zk} (Ω)		Reverse Current I _R (μA)	
		Min.	Max.	I _z (mA)	MAX.	I _z (mA)	MAX.	I _z (mA)	MAX.	V _R (V)
KDZ3.0WV	-	2.80	3.20	5	120	5	1000	0.5	50	1.0
	Y	2.95	3.20							
KDZ3.3WV	-	3.10	3.50	5	130	5	1000	0.5	20	1.0
	Y	3.25	3.50							
KDZ3.6WV	-	3.40	3.80	5	130	5	1000	0.5	10	1.0
	Y	3.60	3.845							
KDZ3.9WV	-	3.70	4.10	5	130	5	1000	0.5	10	1.0
	Y	3.890	4.160							
KDZ4.3WV	Y	4.170	4.430	5	130	5	1000	0.5	5	1.0
KDZ4.7WV	Y	4.550	4.750	5	120	5	1000	0.5	5	1.0
KDZ5.1WV	Y	4.980	5.200	5	70	5	1000	0.5	1	1.5
KDZ5.6WV	Y	5.490	5.730	5	40	5	900	0.5	1	2.5
KDZ6.2WV	Y	6.060	6.330	5	30	5	500	0.5	1	3.0
KDZ6.8WV	Y	6.650	6.930	5	25	5	150	0.5	0.5	5.0
KDZ7.5WV	Y	7.280	7.600	5	23	5	120	0.5	0.5	6.0
KDZ8.2WV	Y	8.020	8.360	5	20	5	120	0.5	0.5	6.5
KDZ9.1WV	Y	8.850	9.230	5	18	5	120	0.5	0.5	7.0
KDZ10WV	Y	9.770	10.210	5	15	5	120	0.5	0.5	8.0
KDZ11WV	Y	10.760	11.220	5	15	5	120	0.5	0.5	8.5
KDZ12WV	Y	11.740	12.240	5	15	5	110	0.5	0.5	9.0
KDZ13WV	Y	12.910	13.490	5	15	5	110	0.5	0.5	10
KDZ15WV	Y	14.340	14.980	5	15	5	110	0.5	0.5	11
KDZ16WV	Y	15.850	16.510	5	18	5	150	0.5	0.5	12
KDZ18WV	Y	17.560	18.350	5	20	5	150	0.5	0.5	14
KDZ20WV	Y	19.520	20.390	5	25	5	200	0.5	0.5	15
KDZ22WV	Y	21.540	22.470	5	30	5	200	0.5	0.5	17
KDZ24WV	Y	23.720	24.780	5	40	5	200	0.5	0.5	19
KDZ27WV	-	26.19	27.53	2	150	2	150	0.5	0.1	21
KDZ30WV	-	29.19	30.69		200		200			23
KDZ33WV	-	32.15	33.79		250		250			25
KDZ36WV	-	35.07	36.87		300		300			27

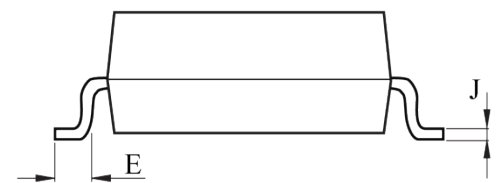
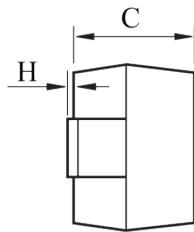
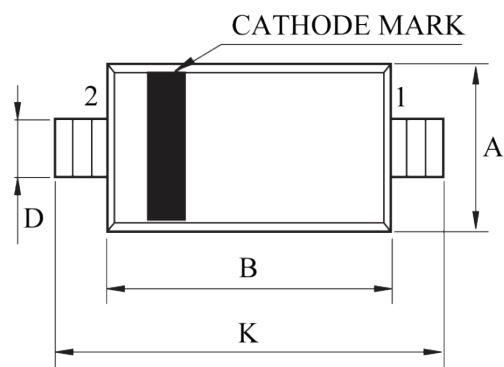
PRODUCT DATASHEET

ZENER DIODE – KDZ2.0WV~KDZ36WV



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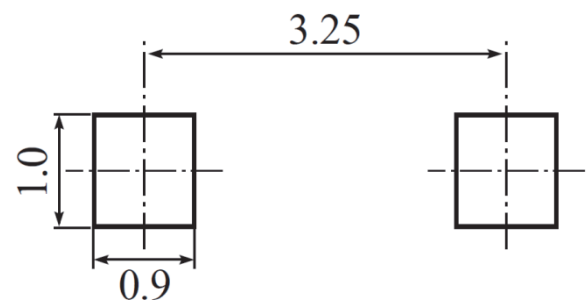
PACKAGE INFORMATION (SOD-123)



- 1. ANODE
- 2. CATHODE

DIM	MILLIMETERS
A	1.60±0.15
B	2.70±0.15
C	1.15±0.15
D	0.55±0.1
E	0.35±0.1
H	0.05±0.05
J	0.1±0.05
K	3.70±0.15

RECOMMENDED PAD DIMENSION



PRECAUTION ON USING KEC PRODUCTS

1. The products described in this data are intended to be used in general-purpose electronic equipment.
(Office equipment, telecommunication equipment, measuring equipment, home appliances)
2. When you intend to use these products with equipment or device which require an extremely high of reliability and special applications (such as automobile, air travel aerospace, transportation equipment, life support, system and safety devices) in which special quality and reliability and the failure or malfunction of products may directly jeopardize or harm the human body or damage to property and any application other than the standard application intended, please be sure to consult with our sales representative in advance.
3. On designing your application, please use product within the ranges guaranteed by KEC for maximum rating, operating supply voltage range, heat radiation characteristics and other characteristics. User shall be responsible for failure or damage when used beyond the guaranteed ranges.
4. The technical information described in this data is limited to showing representative characteristics and applied circuit examples of the products and it does not constitute the warranting of industrial property, the granting of relative rights, or the granting of any license.
5. What are described in the data may be changed without any prior notice to reflect new technical development. Please confirm that you have received the latest product standards or specification before final design, purchase or use.
6. Although KEC is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. KEC shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by KEC.

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