

# SEMICONDUCTOR TECHNICAL DATA

## KDZ2.0V~24V ZENER DIODE SILICON EPITAXIAL PLANAR DIODE

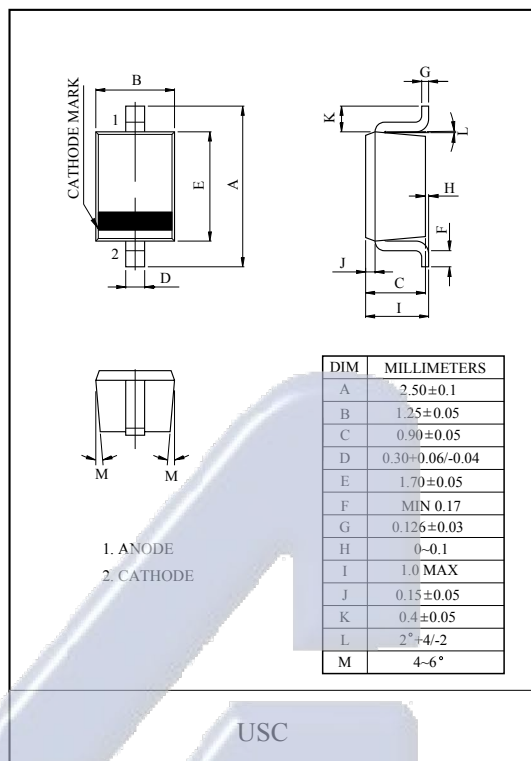
CONSTANT VOLTAGE REGULATION APPLICATION.  
REFERENCE VOLTAGE APPLICATION.

### FEATURES

- Small Package : USC
- Nominal Voltage Tolerance About  $\pm 6\%$ .

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	$P_D$	150	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C



Example 1) 2.0V ~ 2.7V



- KDZ2.0V → 2A
- KDZ2.2V → 2B
- KDZ2.4V → 2C
- KDZ2.7V → 2D

Example 2) 3.0V ~ 9.1V



Example : KDZ3.0V

Example 3) 10V ~ 24V



Example : KDZ10V

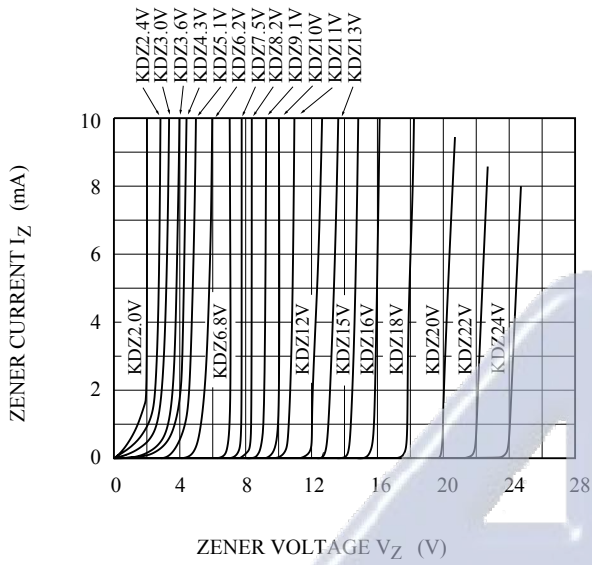
**KDZ2.0V~24V**

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

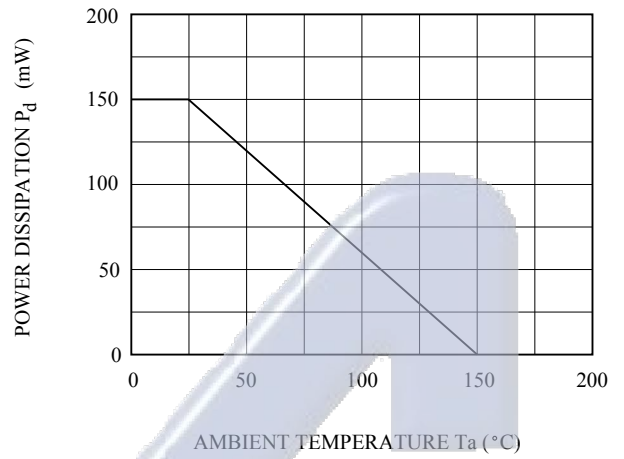
TYPE No.	Zener Voltage Vz (V)			Dynamic Impedance Zz ( $\Omega$ )		KNEE Dynamic Impedance Zzk ( $\Omega$ )		Reverse Current Ir ( $\mu$ A)	
	Min.	Max.	Iz (mA)	MAX.	Iz (mA)	MAX.	Iz (mA)	MAX.	V <sub>R</sub> (V)
KDZ2.0V	1.85	2.15	5	100	5	1000	0.5	120	1.0
KDZ2.2V	2.05	2.38	5	100	5	1000	0.5	120	1.0
KDZ2.4V	2.28	2.60	5	100	5	1000	0.5	120	1.0
KDZ2.7V	2.50	2.90	5	110	5	1000	0.5	120	1.0
KDZ3.0V	2.80	3.20	5	120	5	1000	0.5	50	1.0
KDZ3.3V	3.10	3.50	5	130	5	1000	0.5	20	1.0
KDZ3.6V	3.40	3.80	5	130	5	1000	0.5	10	1.0
KDZ3.9V	3.70	4.10	5	130	5	1000	0.5	10	1.0
KDZ4.3V	4.00	4.50	5	130	5	1000	0.5	5	1.0
KDZ4.7V	4.40	4.90	5	120	5	1000	0.5	5	1.0
KDZ5.1V	4.80	5.40	5	70	5	1000	0.5	1	1.5
KDZ5.6V	5.30	6.00	5	40	5	900	0.5	1	2.5
KDZ6.2V	5.80	6.60	5	30	5	500	0.5	1	3.0
KDZ6.8V	6.40	7.20	5	25	5	150	0.5	0.5	5.0
KDZ7.5V	7.00	7.90	5	23	5	120	0.5	0.5	6.0
KDZ8.2V	7.70	8.70	5	20	5	120	0.5	0.5	6.5
KDZ9.1V	8.50	9.60	5	18	5	120	0.5	0.5	7.0
KDZ10V	9.40	10.60	5	15	5	120	0.5	0.5	8.0
KDZ11V	10.40	11.60	5	15	5	120	0.5	0.5	8.5
KDZ12V	11.40	12.60	5	15	5	110	0.5	0.5	9.0
KDZ13V	12.40	14.10	5	15	5	110	0.5	0.5	10
KDZ15V	13.80	15.60	5	15	5	110	0.5	0.5	11
KDZ16V	15.30	17.10	5	18	5	150	0.5	0.5	12
KDZ18V	16.80	19.10	5	20	5	150	0.5	0.5	14
KDZ20V	18.80	21.20	5	25	5	200	0.5	0.5	15
KDZ22V	20.80	23.30	5	30	5	200	0.5	0.5	17
KDZ24V	22.80	25.60	5	40	5	200	0.5	0.5	19

# KDZ2.0V~24V

$I_Z - V_Z$



$P_d - T_a$



*Electrónica S.A. de C.V.*