KDZ2.0V~24V

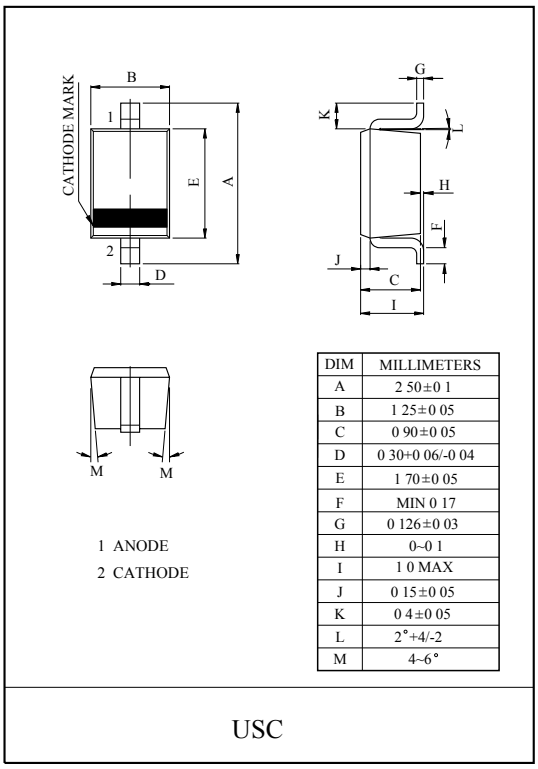
ZENER DIODE
SILICON EPITAXIAL PLANAR DIODE

CONSTANT VOLTAGE REGULATION APPLICATION.
REFERENCE VOLTAGE APPLICATION.

FEATURES

· Small Package : USC

· Nominal Voltage Tolerance About ±6%.



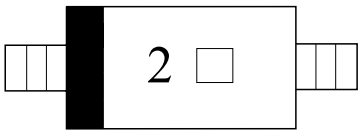
DIM	MILLIMETERS
A	2 50±0 1
B	1 25±0 05
C	0 90±0 05
D	0 30+0 06/-0 04
E	1 70±0 05
F	MIN 0 17
G	0 126±0 03
H	0~0 1
I	1 0 MAX
J	0 15±0 05
K	0 4±0 05
L	2°+4/-2
M	4~6°

USC

MAXIMUM RATING (Ta=25℃)

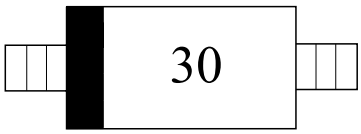
CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P_D	150	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55 ~ 150	℃

Example 1) 2.0V ~ 2.7V



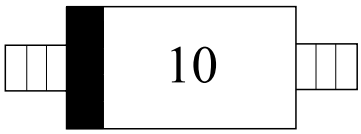
KDZ2.0V → 2A
KDZ2.2V → 2B
KDZ2.4V → 2C
KDZ2.7V → 2D

Example 2) 3.0V ~ 9.1V



Example : KDZ3.0V

Example 3) 10V ~ 24V

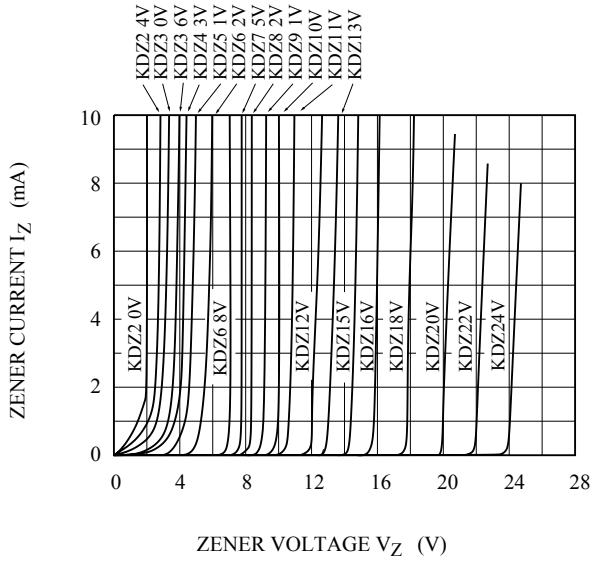


Example : KDZ10V

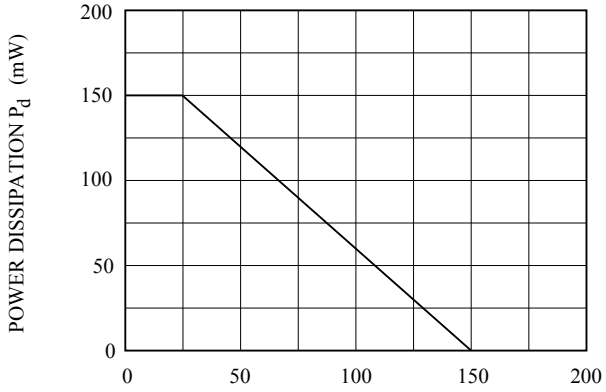
ELECTRICAL CHARACTERISTICS (Ta=25℃)

TYPE No.	Zener Voltage Vz (V)			Dynamic Impedance Zz (Ω)		KNEE Dynamic Impedance Zzk (Ω)		Reverse Current I_R (μA)	
	Min.	Max.	Iz (mA)	MAX.	Iz (mA)	MAX.	Iz (mA)	MAX.	V_R(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

I_Z - V_Z


KDZ2 4V
KDZ3 0V
KDZ3 6V
KDZ4 3V
KDZ5 1V
KDZ6 2V
KDZ7 5V
KDZ8 2V
KDZ9 1V
KDZ10V
KDZ11V
KDZ13V
KDZ2 0V
KDZ6 8V
KDZ12V
KDZ15V
KDZ16V
KDZ18V
KDZ20V
KDZ22V
KDZ24V
ZENER CURRENT I_Z (mA)
ZENER VOLTAGE V_Z (V)
0
2
4
6
8
10
0
4
8
12
16
20
24
28

P_d - Ta


POWER DISSIPATION P_d (mW)
AMBIENT TEMPERATURE Ta (°C)
0
50
100
150
200
0
50
100
150
200