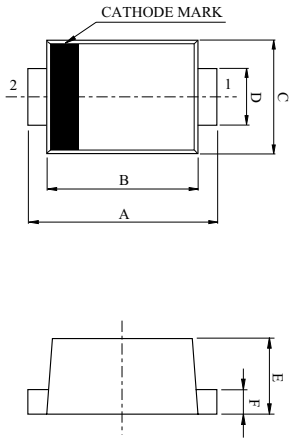
KDZ2.0VV~36VV

ZENER DIODE
SILICON EPITAXIAL PLANAR DIODE

CONSTANT VOLTAGE REGULATION APPLICATION.
REFERENCE VOLTAGE APPLICATION.

FEATURES

☐Small Package : VSC
☐Sharp Breakdown Characteristic.
☐Normal Voltage Tolerance about ± 6%.



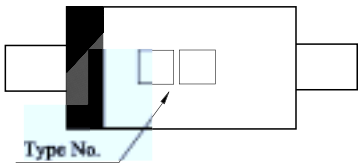
DIM	MILLIMETERS
A	1.4±0.05
B	1.0±0.05
C	0.6±0.05
D	0.28±0.03
E	0.5±0.05
F	0.12±0.03

VSC

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P_D *	100	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55 ~ 150	℃

* Mounted on a glass epoxy circuit board of 20× 20㎜,
pad dimension of 4× 4㎜.



Type No.	Marking		Type No.	Marking		Type No.	Marking		Type No.	Marking	
	-	Y		-	Y		-	Y		-	Y
**KDZ2.0VV	ZA	AY	KDZ4.3VV	ZJ	JY	KDZ9.1VV	ZS	SY	KDZ20VV	20	4Y
**KDZ2.2VV	ZB	BY	KDZ4.7VV	ZK	KY	KDZ10VV	10	0Y	KDZ22VV	22	7Y
**KDZ2.4VV	ZC	CY	KDZ5.1VV	ZL	LY	KDZ11VV	11	1Y	KDZ24VV	24	9Y
**KDZ2.7VV	ZD	DY	KDZ5.6VV	ZM	MY	KDZ12VV	12	2Y	KDZ27VV	27	TY
**KDZ3.0VV	ZE	EY	KDZ6.2VV	ZN	NY	KDZ13VV	13	3Y	KDZ30VV	30	UY
**KDZ3.3VV	ZF	FY	KDZ6.8VV	ZP	PY	KDZ15VV	15	5Y	KDZ33VV	33	VY
**KDZ3.6VV	ZG	GY	KDZ7.5VV	ZQ	QY	KDZ16VV	16	6Y	KDZ36VV	36	WY
**KDZ3.9VV	ZH	HY	KDZ8.2VV	ZR	RY	KDZ18VV	18	8Y	-	-	-

**Under development

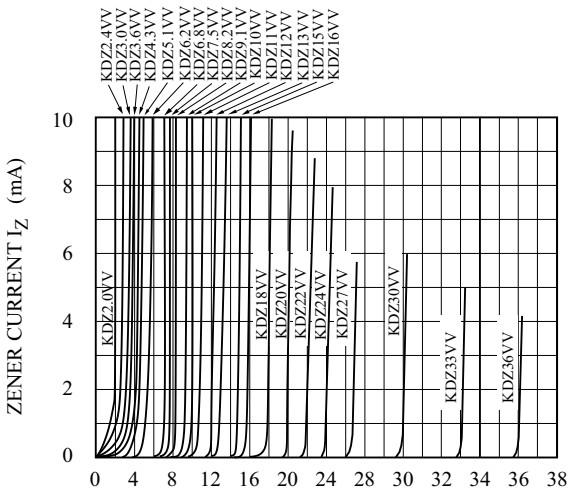
ELECTRICAL CHARACTERISTICS (Ta=25℃)

TYPE No.	Grade	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)
KDZ2.0VV	-	1.85	2.15	5	100	5	1000	0.5	120	1.0
	Y	1.95	2.15							
KDZ2.2VV	-	2.05	2.38	5	100	5	1000	0.5	120	1.0
	Y	2.16	2.38							
KDZ2.4VV	-	2.28	2.60	5	100	5	1000	0.5	120	1.0
	Y	2.40	2.60							
KDZ2.7VV	-	2.50	2.90	5	110	5	1000	0.5	120	1.0
	Y	2.65	2.90							
KDZ3.0VV	-	2.80	3.20	5	120	5	1000	0.5	50	1.0
	Y	2.95	3.20							
KDZ3.3VV	-	3.10	3.50	5	130	5	1000	0.5	20	1.0
	Y	3.25	3.50							
KDZ3.6VV	-	3.40	3.80	5	130	5	1000	0.5	10	1.0
	Y	3.60	3.845							
KDZ3.9VV	-	3.70	4.10	5	130	5	1000	0.5	10	1.0
	Y	3.89	4.16							
KDZ4.3VV	-	4.00	4.50	5	130	5	1000	0.5	5	1.0
	Y	4.17	4.43							
KDZ4.7VV	-	4.40	4.90	5	120	5	1000	0.5	5	1.0
	Y	4.55	4.75							
KDZ5.1VV	-	4.80	5.40	5	70	5	1000	0.5	1	1.5
	Y	4.98	5.20							
KDZ5.6VV	-	5.30	6.00	5	40	5	900	0.5	1	2.5
	Y	5.49	5.73							
KDZ6.2VV	-	5.80	6.60	5	30	5	500	0.5	1	3.0
	Y	6.06	6.33							
KDZ6.8VV	-	6.40	7.20	5	25	5	150	0.5	0.5	5.0
	Y	6.65	6.93							
KDZ7.5VV	-	7.00	7.90	5	23	5	120	0.5	0.5	6.0
	Y	7.28	7.60							
KDZ8.2VV	-	7.70	8.70	5	20	5	120	0.5	0.5	6.5
	Y	8.02	8.36							
KDZ9.1VV	-	8.50	9.60	5	18	5	120	0.5	0.5	7.0
	Y	8.85	9.23							
KDZ10VV	-	9.40	10.60	5	15	5	120	0.5	0.5	8.0
	Y	9.77	10.21							

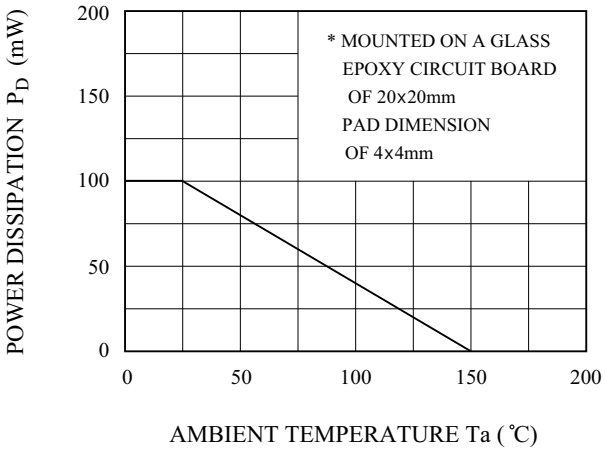
ELECTRICAL CHARACTERISTICS (Ta=25℃)

TYPE No.	Grade	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)
KDZ11VV	-	10.40	11.60	5	15	5	120	0.5	0.5	8.5
	Y	10.76	11.22							
KDZ12VV	-	11.40	12.60	5	15	5	110	0.5	0.5	9.0
	Y	11.74	12.24							
KDZ13VV	-	12.40	14.10	5	15	5	110	0.5	0.5	10
	Y	12.91	13.49							
KDZ15VV	-	13.80	15.60	5	15	5	110	0.5	0.5	11
	Y	14.34	14.98							
KDZ16VV	-	15.30	17.10	5	18	5	150	0.5	0.5	12
	Y	15.85	16.51							
KDZ18VV	-	16.80	19.10	5	20	5	150	0.5	0.5	14
	Y	17.56	18.35							
KDZ20VV	-	18.80	21.20	5	25	5	200	0.5	0.5	15
	Y	19.52	20.39							
KDZ22VV	-	20.80	23.30	5	30	5	200	0.5	0.5	17
	Y	21.54	22.47							
KDZ24VV	-	22.80	25.60	5	40	5	200	0.5	0.5	19
	Y	23.72	24.78							
KDZ27VV	-	25.10	28.90	2	150	2	150	0.5	0.1	21
	Y	26.19	27.53							
KDZ30VV	-	28.00	32.00	2	200	2	200	0.5	0.1	23
	Y	29.19	30.69							
KDZ33VV	-	31.00	35.00	2	250	2	250	0.5	0.1	25
	Y	32.15	33.79							
KDZ36VV	-	34.00	38.00	2	300	2	300	0.5	0.1	27
	Y	35.07	36.87							

I_Z - V_Z



P_D - Ta



γ_Z - V_Z