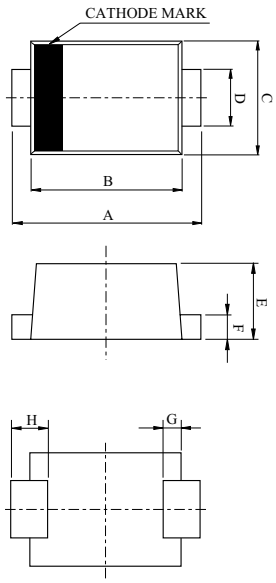
KDZ2.0FV~36FV

ZENER DIODE
SILICON EPITAXIAL PLANAR DIODE

CONSTANT VOLTAGE REGULATION APPLICATION.
REFERENCE VOLTAGE APPLICATION.

FEATURES

- Small Package : TFSC
- Sharp Breakdown Characteristic.



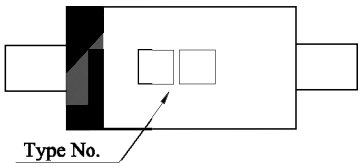
DIM	MILLIMETERS
A	1.00±0.05
B	0.80+0.10/-0.05
C	0.60±0.05
D	0.30±0.05
E	0.40 MAX
F	0.13±0.05
G	0.10 MAX
H	0.25 MAX

TFSC

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
**KDZ2.0FV	1F	1P	KDZ4.3FV	4F	4P	KDZ9.1FV	EF	EP	KDZ20FV	MF	MP
**KDZ2.2FV	7F	7P	KDZ4.7FV	5F	5P	KDZ10FV	UF	UF	KDZ22FV	NF	NP
**KDZ2.4FV	8F	YF	KDZ5.1FV	6F	6P	KDZ11FV	GF	GF	KDZ24FV	QF	QP
**KDZ2.7FV	CF	ZF	KDZ5.6FV	8P	8	KDZ12FV	HF	HF	KDZ27FV	RF	RP
**KDZ3.0FV	VF	YP	KDZ6.2FV	9F	9P	KDZ13FV	JF	JF	KDZ30FV	SF	SP
**KDZ3.3FV	WF	ZP	KDZ6.8FV	BF	BP	KDZ15FV	KF	KF	KDZ33FV	AP	AF
**KDZ3.6FV	2F	2P	KDZ7.5FV	PF	PP	KDZ16FV	91	9	KDZ36FV	TF	TP
**KDZ3.9FV	3F	3P	KDZ8.2FV	DF	DP	KDZ18FV	LF	LF	-	-	-

**Under development

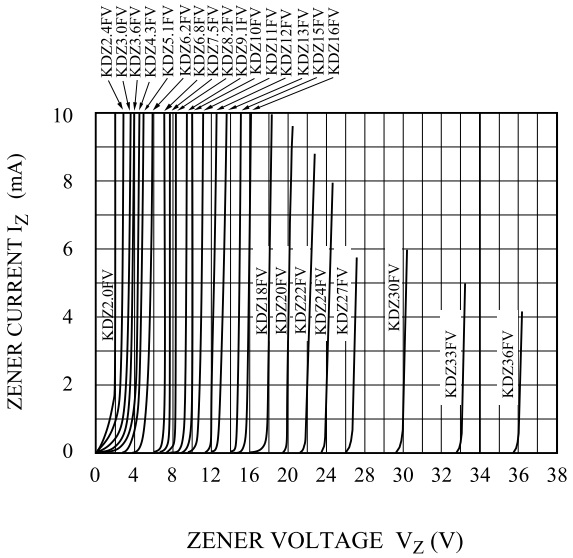
ELECTRICAL CHARACTERISTICS (Ta=25℃)

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)
KDZ2.0FV	-	1.85	2.15	5	100	5	1000	0.5	120	1.0
	Y	1.95	2.15							
KDZ2.2FV	-	2.05	2.38	5	100	5	1000	0.5	120	1.0
	Y	2.16	2.38							
KDZ2.4FV	-	2.28	2.60	5	100	5	1000	0.5	120	1.0
	Y	2.40	2.60							
KDZ2.7FV	-	2.50	2.90	5	110	5	1000	0.5	120	1.0
	Y	2.65	2.90							
KDZ3.0FV	-	2.80	3.20	5	120	5	1000	0.5	50	1.0
	Y	2.95	3.20							
KDZ3.3FV	-	3.10	3.50	5	130	5	1000	0.5	20	1.0
	Y	3.25	3.50							
KDZ3.6FV	-	3.40	3.80	5	130	5	1000	0.5	10	1.0
	Y	3.60	3.845							
KDZ3.9FV	-	3.70	4.10	5	130	5	1000	0.5	10	1.0
	Y	3.89	4.16							
KDZ4.3FV	-	4.00	4.50	5	130	5	1000	0.5	5	1.0
	Y	4.17	4.43							
KDZ4.7FV	-	4.40	4.90	5	120	5	1000	0.5	5	1.0
	Y	4.55	4.75							
KDZ5.1FV	-	4.80	5.40	5	70	5	1000	0.5	1	1.5
	Y	4.98	5.20							
KDZ5.6FV	-	5.30	6.00	5	40	5	900	0.5	1	2.5
	Y	5.49	5.73							
KDZ6.2FV	-	5.80	6.60	5	30	5	500	0.5	1	3.0
	Y	6.06	6.33							
KDZ6.8FV	-	6.40	7.20	5	25	5	150	0.5	0.5	5.0
	Y	6.65	6.93							
KDZ7.5FV	-	7.00	7.90	5	23	5	120	0.5	0.5	6.0
	Y	7.28	7.60							
KDZ8.2FV	-	7.70	8.70	5	20	5	120	0.5	0.5	6.5
	Y	8.02	8.36							
KDZ9.1FV	-	8.50	9.60	5	18	5	120	0.5	0.5	7.0
	Y	8.85	9.23							
KDZ10FV	-	9.40	10.60	5	15	5	120	0.5	0.5	8.0
	Y	9.77	10.21							

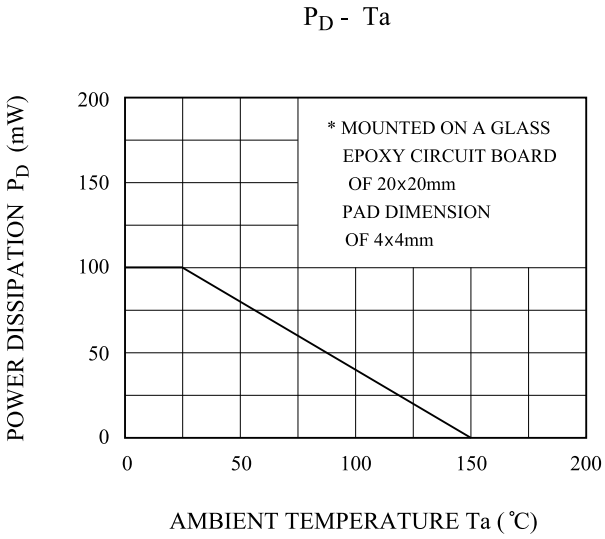
ELECTRICAL CHARACTERISTICS (Ta=25℃)

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)
KDZ11FV	-	10.40	11.60	5	15	5	120	0.5	0.5	8.5
	Y	10.76	11.22							
KDZ12FV	-	11.40	12.60	5	15	5	110	0.5	0.5	9.0
	Y	11.74	12.24							
KDZ13FV	-	12.40	14.10	5	15	5	110	0.5	0.5	10
	Y	12.91	13.49							
KDZ15FV	-	13.80	15.60	5	15	5	110	0.5	0.5	11
	Y	14.34	14.98							
KDZ16FV	-	15.30	17.10	5	18	5	150	0.5	0.5	12
	Y	15.85	16.51							
KDZ18FV	-	16.80	19.10	5	20	5	150	0.5	0.5	14
	Y	17.56	18.35							
KDZ20FV	-	18.80	21.20	5	25	5	200	0.5	0.5	15
	Y	19.52	20.39							
KDZ22FV	-	20.80	23.30	5	30	5	200	0.5	0.5	17
	Y	21.54	22.47							
KDZ24FV	-	22.80	25.60	5	40	5	200	0.5	0.5	19
	Y	23.72	24.78							
KDZ27FV	-	25.10	28.90	2	150	2	150	0.5	0.1	21
	Y	26.19	27.53							
KDZ30FV	-	28.00	32.00	2	200	2	200	0.5	0.1	23
	Y	29.19	30.69							
KDZ33FV	-	31.00	35.00	2	250	2	250	0.5	0.1	25
	Y	32.15	33.79							
KDZ36FV	-	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