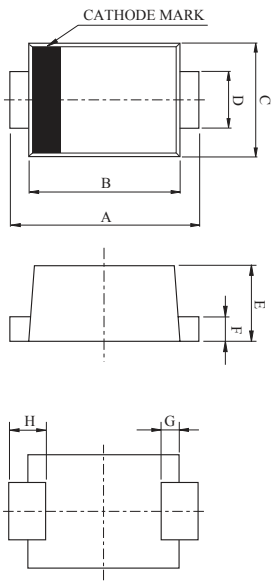
KDZ2.0FV~36FV

ZENER DIODE
SILICON EPITAXIAL PLANAR DIODE

CONSTANT VOLTAGE REGULATION APPLICATION.
REFERENCE VOLTAGE APPLICATION.

FEATURES

- Small Package : TFSC
- Sharp Breakdown Characteristic.
- Zener Voltage Tolerance
  - None Grade : About ±6%.
  - Y Grade : About ±2.5%.
- Suffix **U** : Qualified to AEC-Q101.
  ex) KDZ20FV-Y-RTK/H**U**



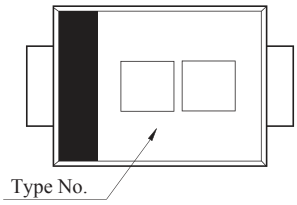
DIM	MILLIMETERS
A	1.00±0.05
B	0.80+0.10/-0.05
C	0.60±0.05
D	0.30±0.05
E	0.40 MAX
F	0.13±0.05
G	0.10 MAX
H	0.25 MAX

TFSC

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P_D *	100	mW
Junction Temperature	T_j	150	℃
Operating Temperature	T_{opr}	-55～150	℃
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	4P	KDZ9.1FV	EP	KDZ20FV	-	MP
**KDZ2.2FV	7F	7P	KDZ4.7FV	5P	KDZ10FV	UF	KDZ22FV	-	NP
**KDZ2.4FV	8F	YF	KDZ5.1FV	6P	KDZ11FV	GF	KDZ24FV	-	QP
**KDZ2.7FV	CF	ZF	KDZ5.6FV	8	KDZ12FV	HF	KDZ27FV	RF	-
**KDZ3.0FV	VF	YP	KDZ6.2FV	9P	KDZ13FV	JF	KDZ30FV	SF	-
**KDZ3.3FV	WF	ZP	KDZ6.8FV	BP	KDZ15FV	KF	KDZ33FV	AP	-
**KDZ3.6FV	2F	2P	KDZ7.5FV	PP	KDZ16FV	9	KDZ36FV	TF	-
**KDZ3.9FV	3F	3P	KDZ8.2FV	DP	KDZ18FV	LF	-	-	-

**Under development

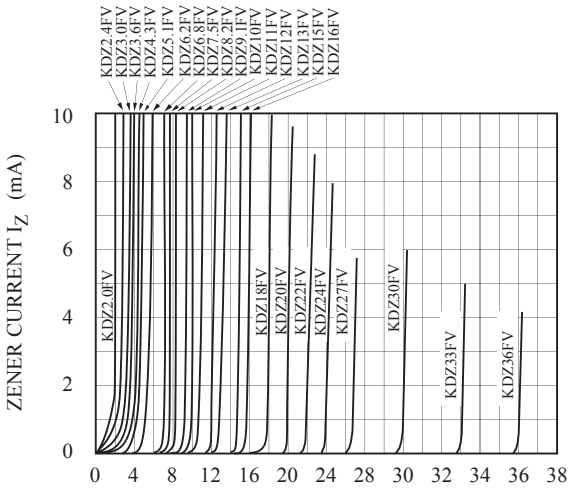
ELECTRICAL CHARACTERISTICS (Ta=25℃)

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	Y	4.17	4.43	5	130	5	1000	0.5	5	1.0
KDZ4.7FV	Y	4.55	4.75	5	120	5	1000	0.5	5	1.0
KDZ5.1FV	Y	4.98	5.20	5	70	5	1000	0.5	1	1.5
KDZ5.6FV	Y	5.49	5.73	5	40	5	900	0.5	1	2.5
KDZ6.2FV	Y	6.06	6.33	5	30	5	500	0.5	1	3.0
KDZ6.8FV	Y	6.65	6.93	5	25	5	150	0.5	0.5	5.0
KDZ7.5FV	Y	7.28	7.60	5	23	5	120	0.5	0.5	6.0
KDZ8.2FV	Y	8.02	8.36	5	20	5	120	0.5	0.5	6.5
KDZ9.1FV	Y	8.85	9.23	5	18	5	120	0.5	0.5	7.0
KDZ10FV	Y	9.77	10.21	5	15	5	120	0.5	0.5	8.0

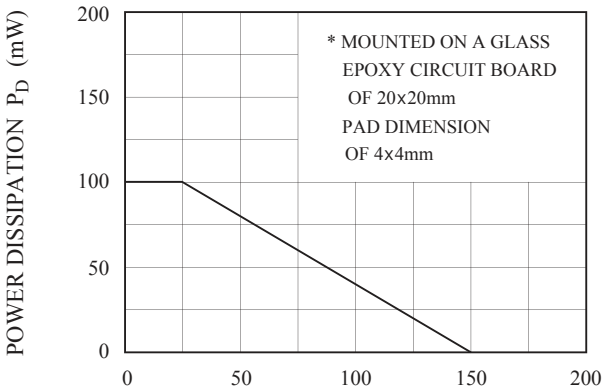
ELECTRICAL CHARACTERISTICS (Ta=25℃)

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	Y	10.76	11.22	5	15	5	120	0.5	0.5	8.5
KDZ12FV	Y	11.74	12.24	5	15	5	110	0.5	0.5	9.0
KDZ13FV	Y	12.91	13.49	5	15	5	110	0.5	0.5	10
KDZ15FV	Y	14.34	14.98	5	15	5	110	0.5	0.5	11
KDZ16FV	Y	15.85	16.51	5	18	5	150	0.5	0.5	12
KDZ18FV	Y	17.56	18.35	5	20	5	150	0.5	0.5	14
KDZ20FV	Y	19.52	20.39	5	25	5	200	0.5	0.5	15
KDZ22FV	Y	21.54	22.47	5	30	5	200	0.5	0.5	17
KDZ24FV	Y	23.72	24.78	5	40	5	200	0.5	0.5	19
KDZ27FV	-	26.19	27.53	2	150	2	150	0.5	0.1	21
KDZ30FV	-	29.19	30.69	2	200	2	200	0.5	0.1	23
KDZ33FV	-	32.15	33.79	2	250	2	250	0.5	0.1	25
KDZ36FV	-	35.07	36.87	2	300	2	300	0.5	0.1	27

I_Z - V_Z



P_D - Ta



γ_Z - V_Z