Zener Diode

KDZV series Data Sheet

●Application

Voltage regulation

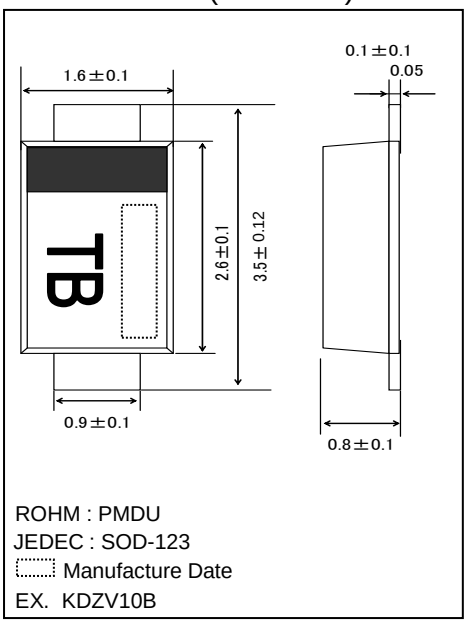
●Features

1) Small power mold type. (PMDU)
2) High ESD tolerance

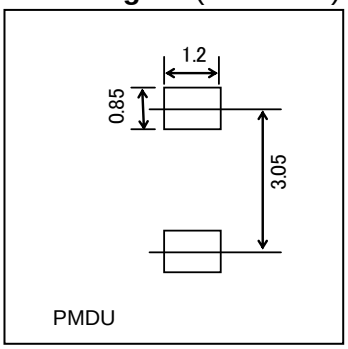
●Construction

Silicon epitaxial planar

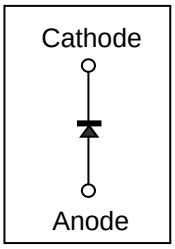
●Dimensions (Unit : mm)



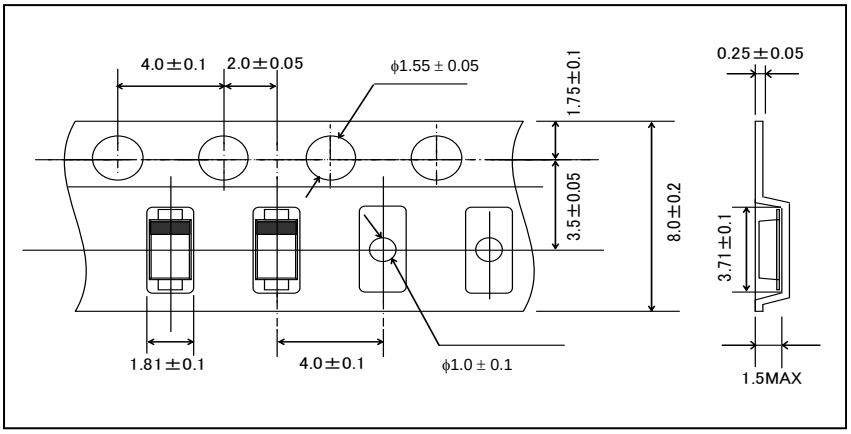
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (T_a = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	P	1000	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

●Electrical characteristics (T_a= 25°C)

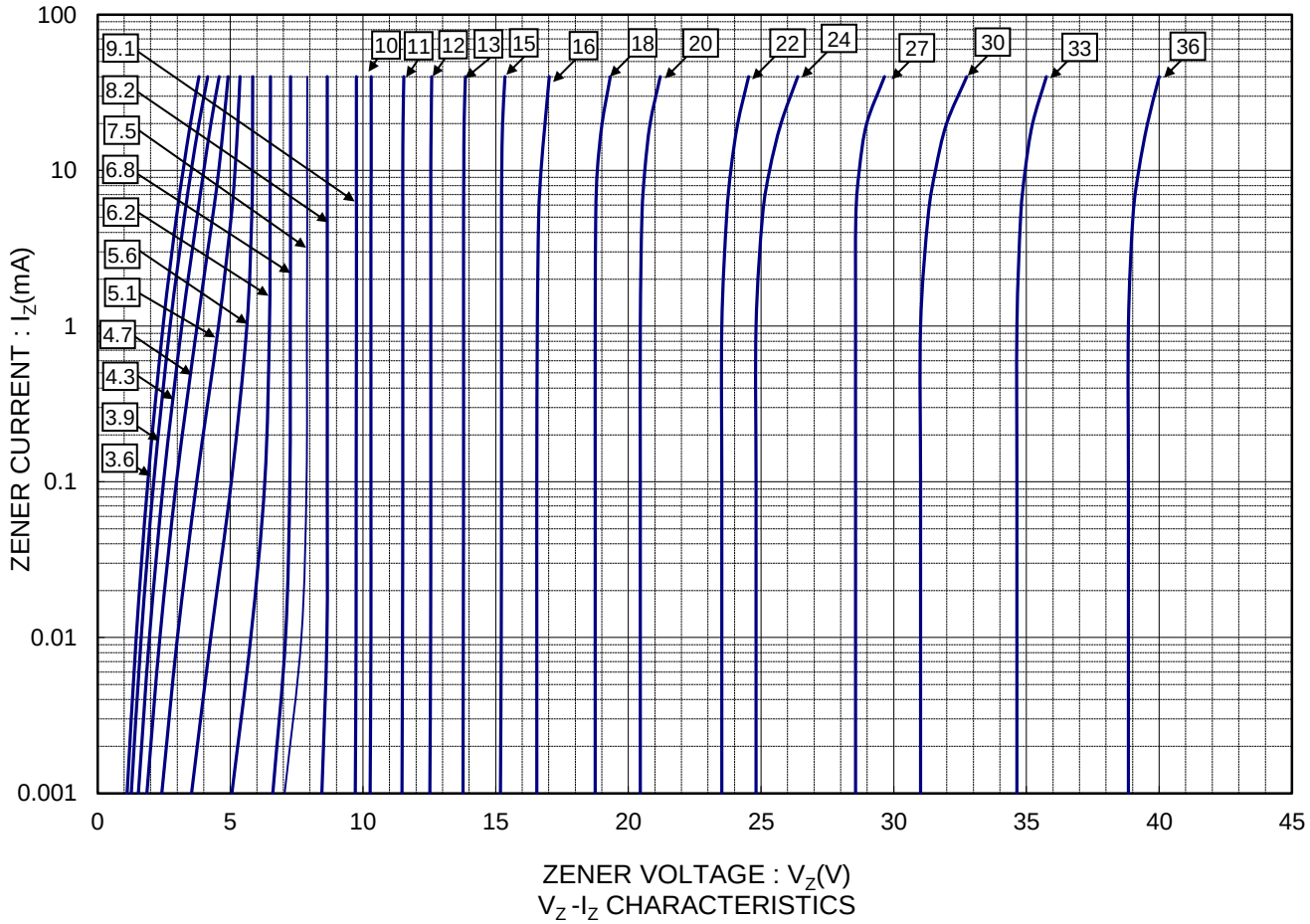
TYP.	Symbol					
	Zener voltage : V_Z(V)				Reverse current : I_R(μA)	
	MIN.	TYP.	MAX.	I_Z(mA)	MAX.	V_R(V)
KDZV 3.6B	3.600	3.813	4.000	40.0	60.0	1.0
KDZV 3.9B	3.900	4.136	4.400	40.0	40.0	1.0
KDZV 4.3B	4.300	4.572	4.800	40.0	20.0	1.0
KDZV 4.7B	4.700	4.924	5.200	40.0	20.0	1.0
KDZV 5.1B	5.100	5.368	5.700	40.0	20.0	1.0
KDZV 5.6B	5.600	5.856	6.300	40.0	20.0	1.5
KDZV 6.2B	6.200	6.509	7.000	40.0	20.0	3.0
KDZV 6.8B	6.800	7.280	7.700	40.0	20.0	3.5
KDZV 7.5B	7.500	7.889	8.400	40.0	20.0	4.0
KDZV 8.2B	8.200	8.655	9.300	40.0	20.0	5.0
KDZV 9.1B	9.100	9.747	10.200	40.0	20.0	6.0
KDZV 10B	10.000	10.310	11.200	40.0	10.0	7.0
KDZV 11B	11.000	11.510	12.300	20.0	10.0	8.0
KDZV 12B	12.000	12.500	13.500	20.0	10.0	9.0
KDZV 13B	13.300	13.820	15.000	20.0	10.0	10.0
KDZV 15B	14.700	15.350	16.500	20.0	10.0	11.0
KDZV 16B	16.200	16.860	18.300	20.0	10.0	12.0
KDZV 18B	18.000	19.000	20.300	20.0	10.0	13.0
KDZV 20B	20.000	20.820	22.400	20.0	10.0	15.0
KDZV 22B	22.000	23.850	24.500	10.0	10.0	17.0
KDZV 24B	24.000	25.310	27.600	10.0	10.0	19.0
KDZV 27B	27.000	28.700	30.800	10.0	10.0	21.0
KDZV 30B	30.000	31.570	34.000	10.0	10.0	23.0
KDZV 33B	33.000	34.950	37.000	10.0	10.0	25.0
KDZV 36B	36.000	39.240	40.000	10.0	10.0	27.0

∗The Zener voltage (Vz) is measured 40ms after power is supplied.

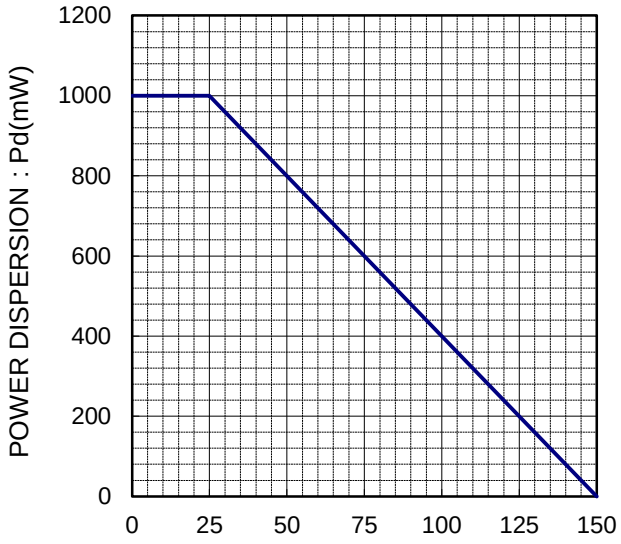
●MARKING (TYPE NO.)

TYPE	TYPE NO.	TYPE	TYPE NO.
KDZV 3.6B	GB	KDZV 12B	VB
KDZV 3.9B	HB	KDZV 13B	WB
KDZV 4.3B	JB	KDZV 15B	XB
KDZV 4.7B	KB	KDZV 16B	YB
KDZV 5.1B	LB	KDZV 18B	ZB
KDZV 5.6B	MB	KDZV 20B	AD
KDZV 6.2B	NB	KDZV 22B	BD
KDZV 6.8B	PB	KDZV 24B	CD
KDZV 7.5B	QB	KDZV 27B	DD
KDZV 8.2B	RB	KDZV 30B	ED
KDZV 9.1B	SB	KDZV 33B	FD
KDZV 10B	TB	KDZV 36B	GD
KDZV 11B	UB		

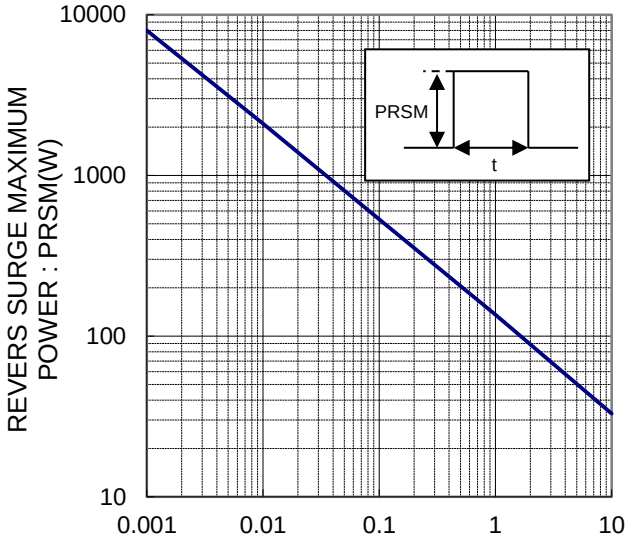
●Electrical characteristic curves



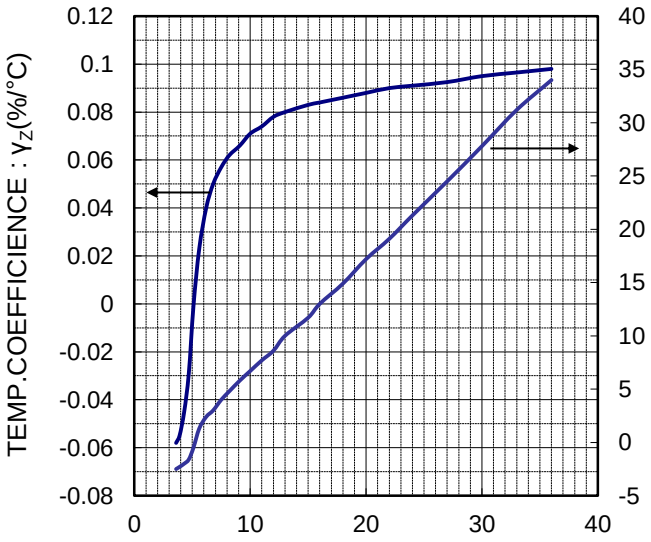
●Electrical characteristic curves



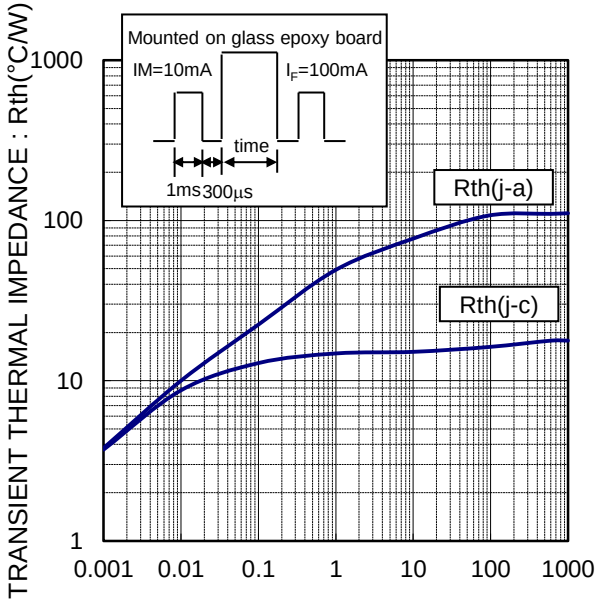
Pd-T_a CHARACTERISTICS



PRSM-TIME CHARACTERISTICS

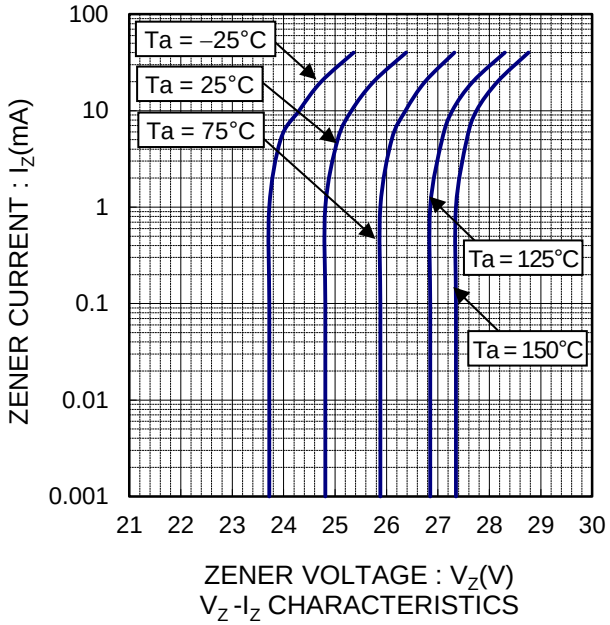


γ_Z -V_Z CHARACTERISTICS

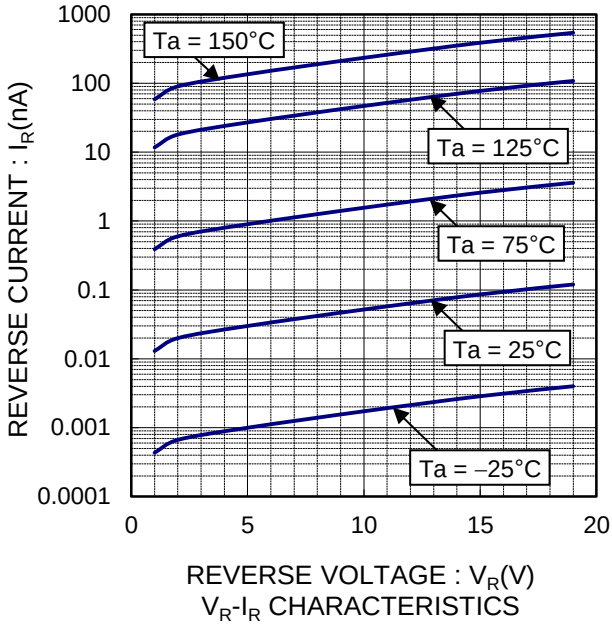


Rth-t CHARACTERISTICS

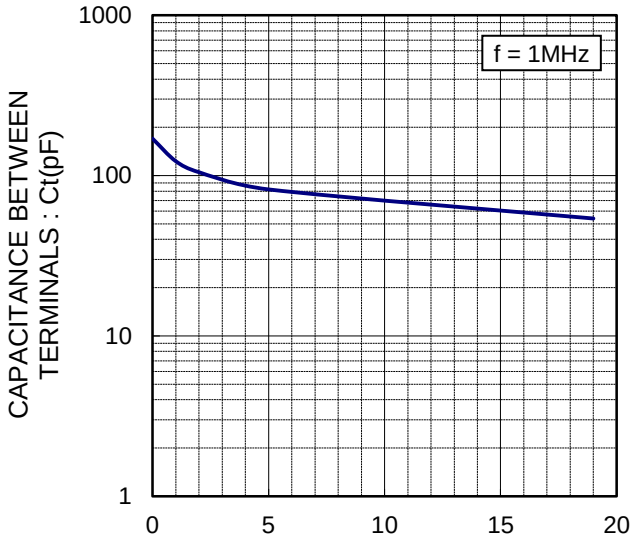
●Electrical characteristic curves



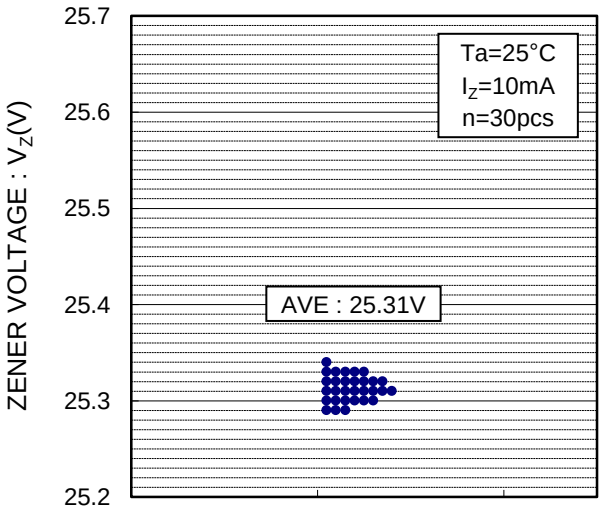
V_Z -I_Z CHARACTERISTICS



V_R-I_R CHARACTERISTICS

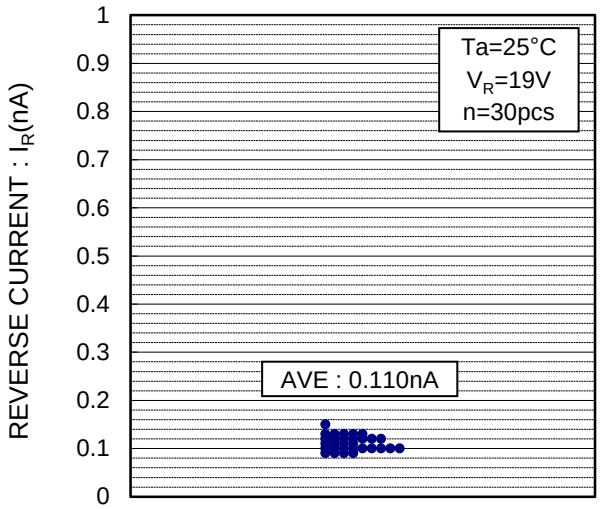


V_R-Ct CHARACTERISTICS

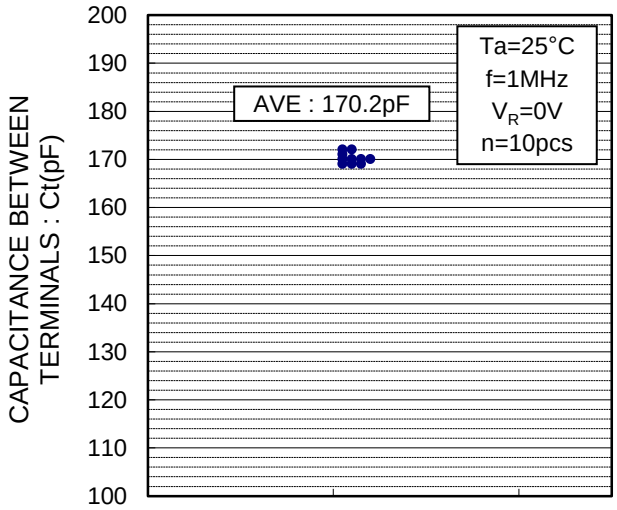


V_Z DISPERSION MAP

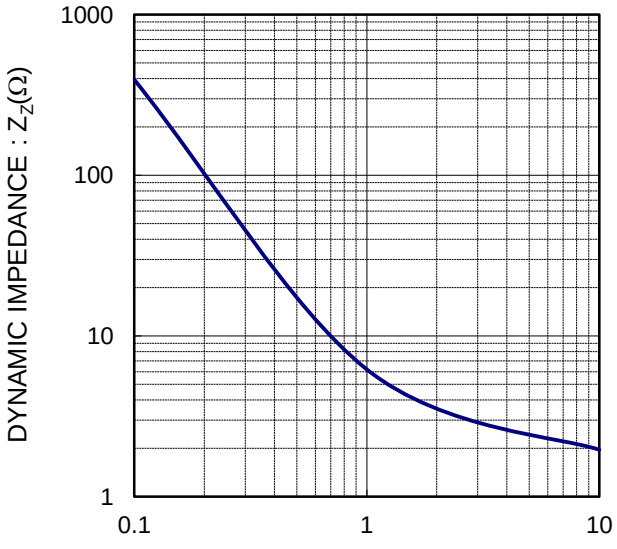
●Electrical characteristic curves



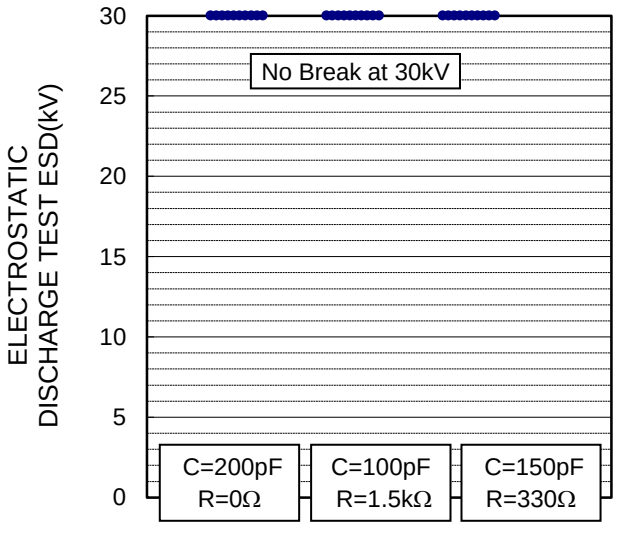
I_R DISPERSION MAP



Ct DISPERSION MAP



ZENER CURRENT : I_Z(mA)
Z_Z-I_Z CHARACTERISTICS



ESD DISPERSION MAP

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