

●Application

Voltage regulation

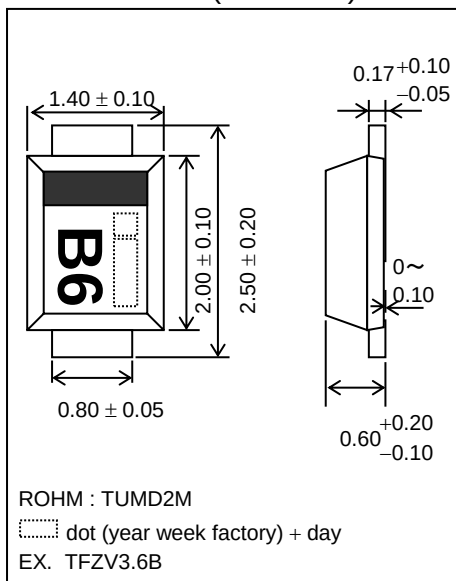
●Features

- 1) Small power mold type (TUMD2M)
- 2) High reliability
- 3) By chip-mounter,
automatic mouting is possible.

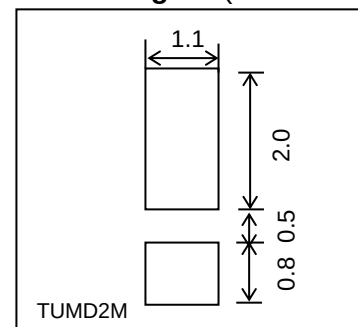
●Construction

Silicon epitaxial planar

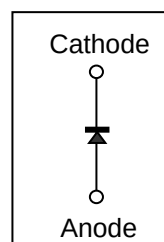
●Dimensions (Unit : mm)



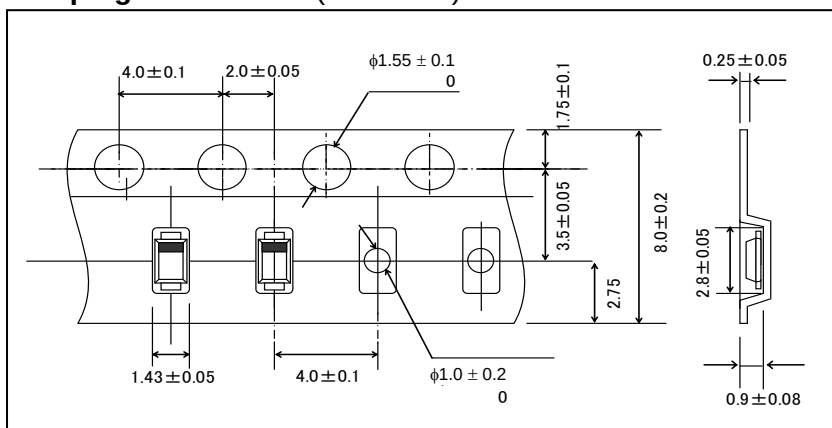
●Land Size Figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



●Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation (*)	P	500	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C
Operating temperature	T _{opr}	-55 to +150	°C

(*) Device mounted on glass-epoxy board(50×50mm, t=1.6mm) Solder land (10×10mm)

●Electrical Characteristics (T_a= 25°C)

TYP.	Symbol						
	Zener voltage : V _Z (V)			Dynamic Impedance : Z _Z (Ω)		Reverse current : I _R (μA)	
	MIN.	MAX.	I _Z (mA)	MAX.	I _Z (mA)	MAX.	V _R (V)
TFZV 2.0B	2.020	2.200	20	140	20	120	0.5
TFZV 2.2B	2.220	2.410	20	120	20	120	0.7
TFZV 2.4B	2.430	2.630	20	100	20	120	1.0
TFZV 2.7B	2.690	2.910	20	100	20	100	1.0
TFZV 3.0B	3.010	3.220	20	80	20	50	1.0
TFZV 3.3B	3.320	3.530	20	70	20	20	1.0
TFZV 3.6B	3.600	3.845	20	60	20	10	1.0
TFZV 3.9B	3.890	4.160	20	50	20	5	1.0
TFZV 4.3B	4.170	4.430	20	40	20	5	1.0
TFZV 4.7B	4.550	4.800	20	25	20	5	1.0
TFZV 5.1B	4.940	5.200	20	20	20	5	1.5
TFZV 5.6B	5.450	5.730	20	13	20	5	2.5
TFZV 6.2B	5.960	6.270	20	10	20	5	3.0
TFZV 6.8B	6.490	6.830	20	8	20	2	3.5
TFZV 7.5B	7.070	7.450	20	8	20	0.5	4.0
TFZV 8.2B	7.780	8.190	20	8	20	0.5	5.0
TFZV 9.1B	8.570	9.010	20	8	20	0.5	6.0
TFZV 10B	9.410	9.900	20	8	20	0.2	7.0
TFZV 11B	10.500	11.050	10	10	10	0.2	8.0
TFZV 12B	11.440	12.030	10	12	10	0.2	9.0
TFZV 13B	12.550	13.210	10	14	10	0.2	10
TFZV 15B	13.890	14.620	10	16	10	0.2	11
TFZV 16B	15.250	16.040	10	18	10	0.2	12
TFZV 18B	16.820	17.700	10	23	10	0.2	13
TFZV 20B	18.630	19.590	10	28	10	0.2	15
TFZV 22B	20.640	21.710	5	30	5	0.2	17
TFZV 24B	22.610	23.770	5	35	5	0.2	19
TFZV 27B	24.970	26.260	5	45	5	0.2	21
TFZV 30B	27.700	29.130	5	55	5	0.2	23
TFZV 33B	30.320	31.880	5	65	5	0.2	25
TFZV 36B	32.790	34.490	5	75	5	0.2	27
TFZV 39B	35.360	37.190	5	85	5	0.2	30

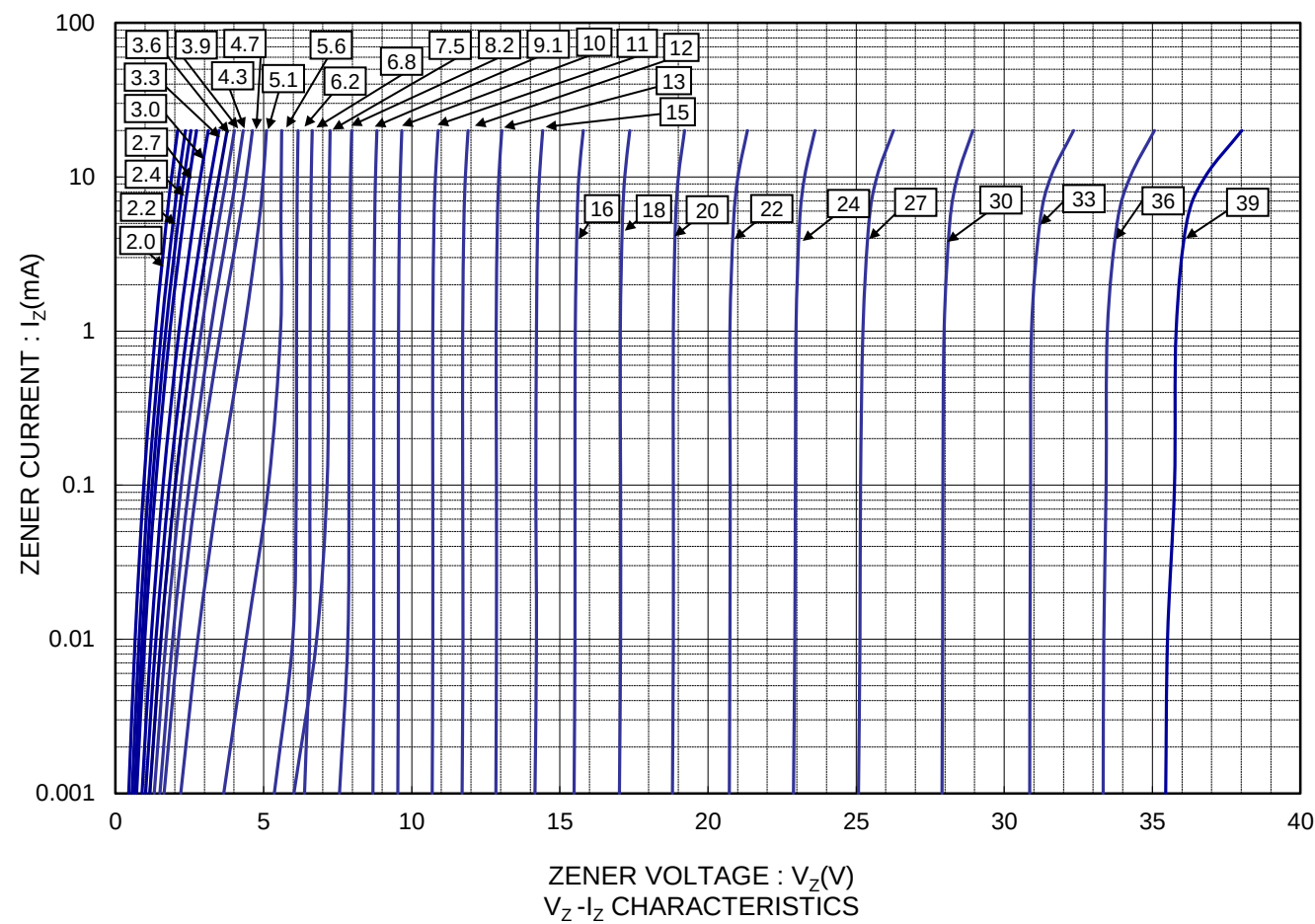
(1) The zener voltage(V_Z) is measured 40ms after power is supplied.

(2) The Dynamic Impedance(Z_Z) are measured by superimposing a minute alternating current on the regulated current(I_Z)

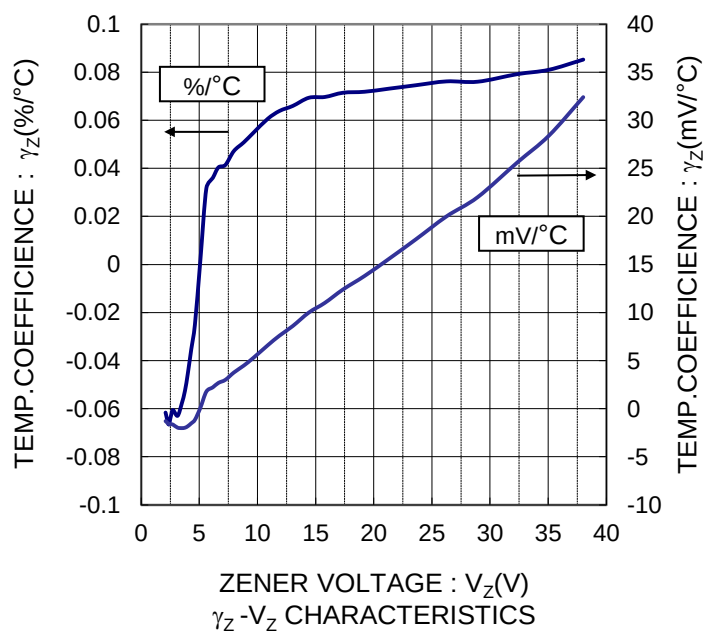
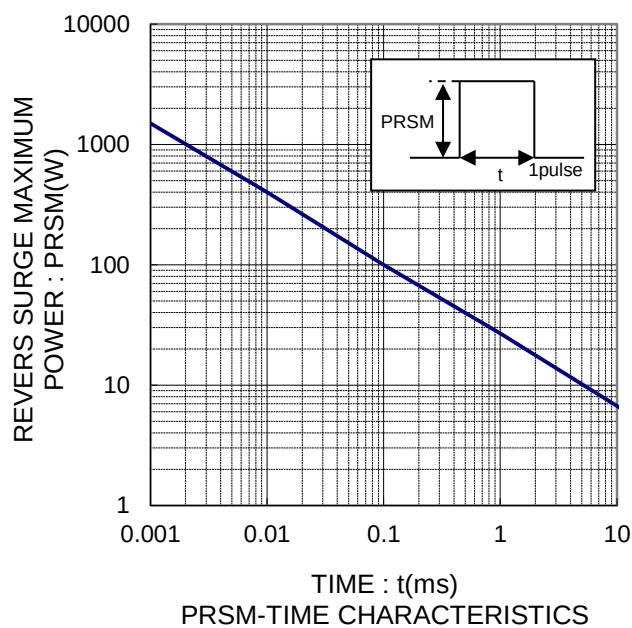
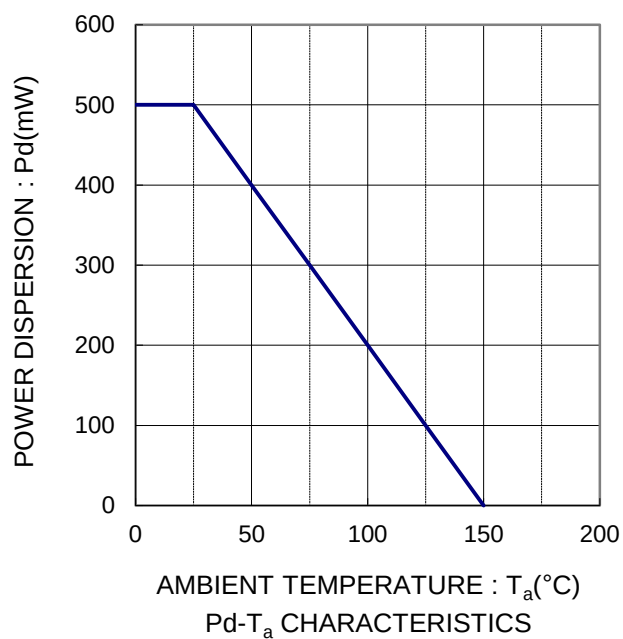
●MARKING (TYPE NO.)

TYPE	TYPE NO.	TYPE	TYPE NO.
TFZV 2.0B	B 0	TFZV 9.1B	B G
TFZV 2.2B	B 1	TFZV 10B	B H
TFZV 2.4B	B 2	TFZV 11B	B I
TFZV 2.7B	B 3	TFZV 12B	B J
TFZV 3.0B	B 4	TFZV 13B	B K
TFZV 3.3B	B 5	TFZV 15B	B L
TFZV 3.6B	B 6	TFZV 16B	B M
TFZV 3.9B	B 7	TFZV 18B	B N
TFZV 4.3B	B 8	TFZV 20B	B O
TFZV 4.7B	B 9	TFZV 22B	B P
TFZV 5.1B	B A	TFZV 24B	B Q
TFZV 5.6B	B B	TFZV 27B	B R
TFZV 6.2B	B C	TFZV 30B	B S
TFZV 6.8B	B D	TFZV 33B	B T
TFZV 7.5B	B E	TFZV 36B	B U
TFZV 8.2B	B F	TFZV 39B	B V

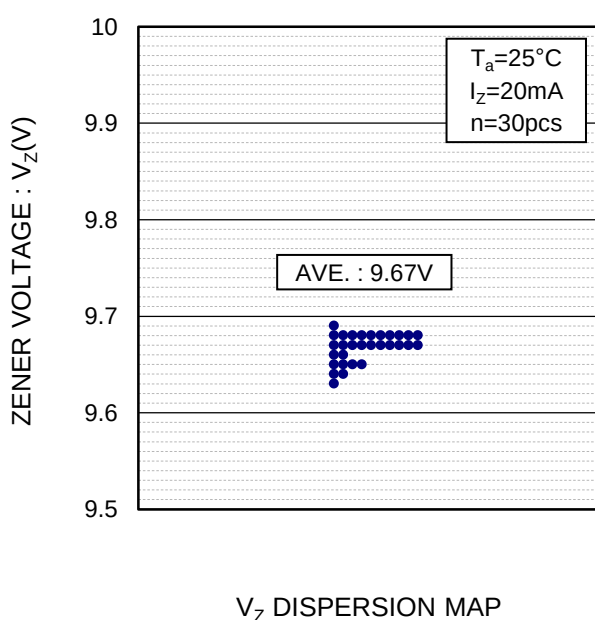
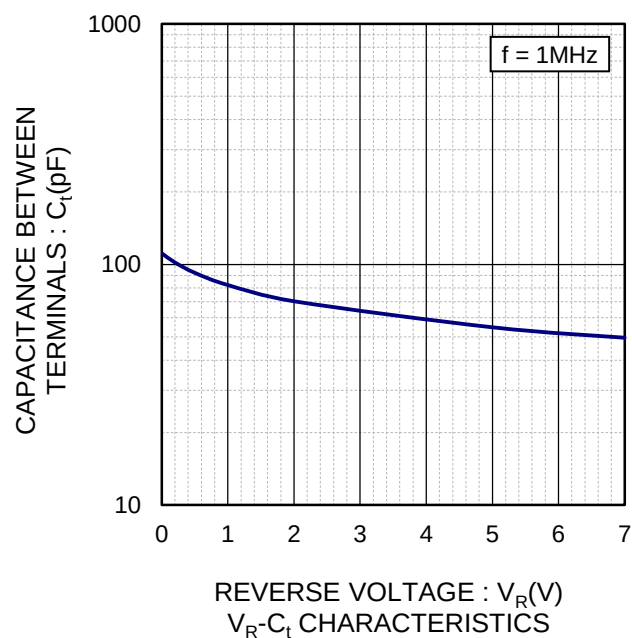
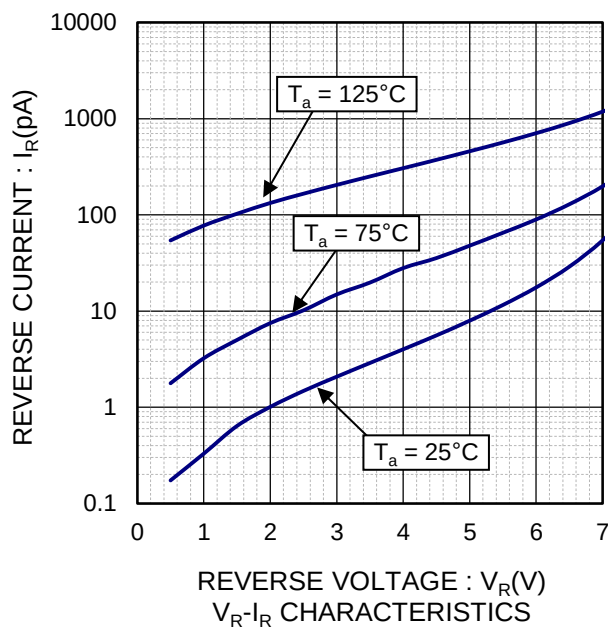
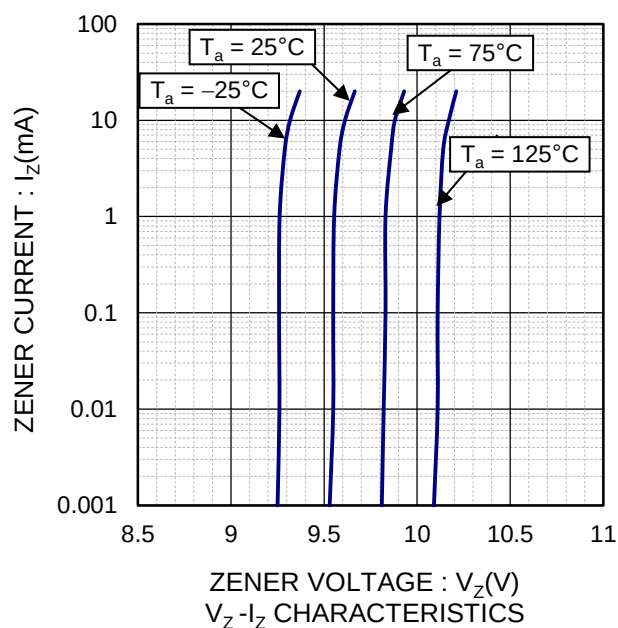
●Electrical Characteristic Curves



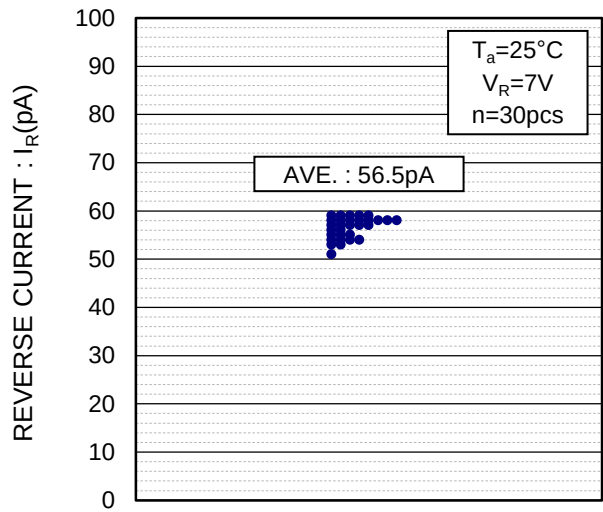
●Electrical Characteristic Curves



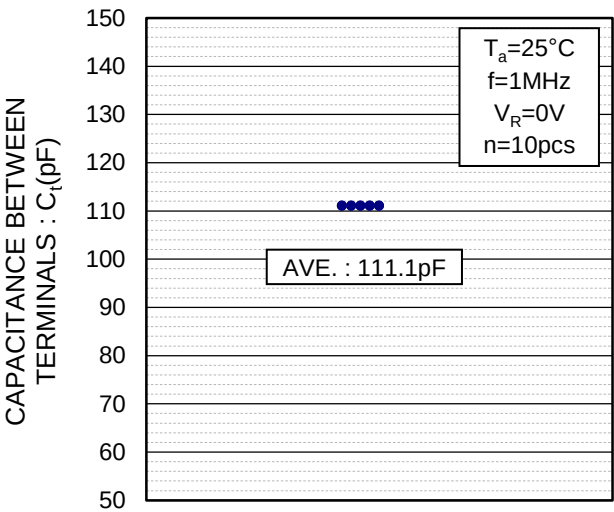
●Electrical Characteristic Curves



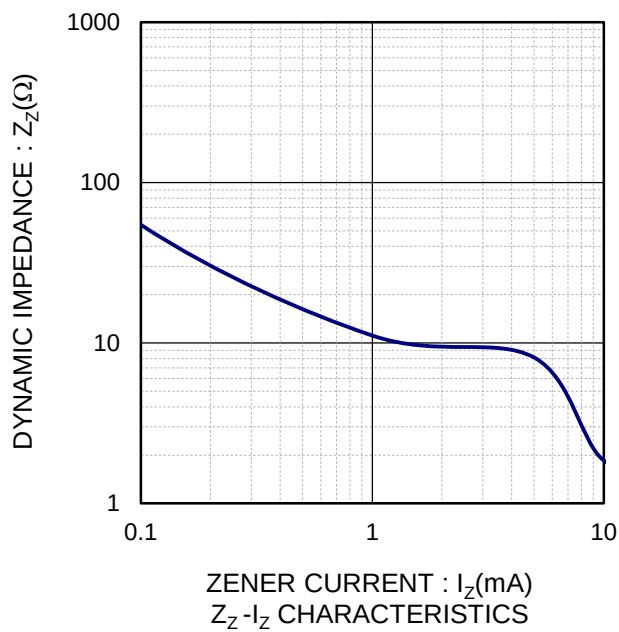
●Electrical Characteristic Curves



I_R DISPERSION MAP



C_t DISPERSION MAP



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