TDZ series Datasheet

Application

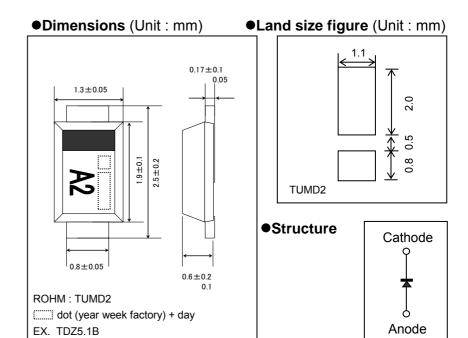
Constant voltage control

Features

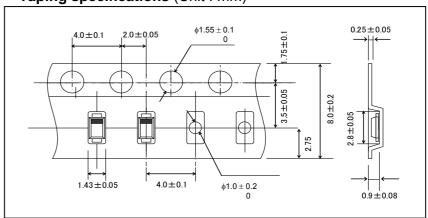
- 1) Small mold type. (TUMD2)
- 2) High reliability.
- 3) Can be mounted automatically, using chip mounter.

Construction

Silicon epitaxial planar



● Taping specifications (Unit: mm)



● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Power dissipation	Р	500	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55 to +150	°C
Operating resistance	Topr	−55 to +150	°C

●Electrical characteristics (Ta= 25°C)

	Symbol				
TYP.	Zener voltage : V _Z (V)			Reverse current :	
ITP.				I _R (μA)	
	MIN.	MAX.	$I_Z(mA)$	MAX.	$V_R(V)$
TDZ 5.1	4.60	5.60	10	10	1.5
TDZ 5.6	5.10	6.10	10	10	2.5
TDZ 6.2	5.60	6.80	10	10	3.0
TDZ 6.8	6.20	7.40	10	10	3.5
TDZ 7.5	6.80	8.30	10	10	4.5
TDZ 8.2	7.40	9.00	10	10	4.9
TDZ 9.1	8.20	10.00	10	10	5.5
TDZ 10	9.00	11.00	10	10	6.0
TDZ 11	9.90	12.10	10	10	7.0
TDZ 12	10.80	13.20	10	10	8.0
TDZ 13	11.70	14.30	10	10	9.0
TDZ 15	13.50	16.50	10	10	10.0
TDZ 16	14.40	17.60	10	10	11.0
TDZ 18	16.20	19.80	10	10	12.0
TDZ 20	18.00	22.00	10	10	14.0
TDZ 22	19.80	24.20	10	10	15.0
TDZ 24	21.60	26.40	10	10	16.0
TDZ 27	24.30	29.70	10	10	19.0
TDZ 30	27.00	33.00	10	10	21.0

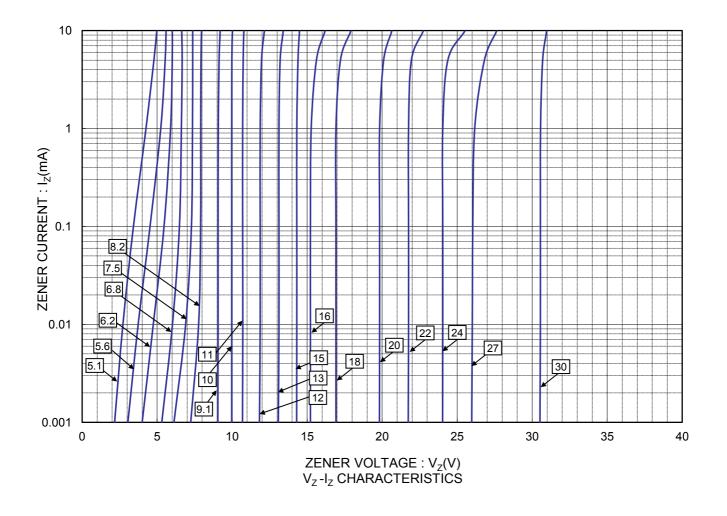
⁽¹⁾ The Zener voltage (Vz) is measured 40ms after power is supplied.

●MARKING (TYPE NO.)

TYPE	TYPE NO.	TYPE	TYPE NO.	
TDZ 5.1	A2	TDZ 13	35	
TDZ 5.6	C2	TDZ 15	45	
TDZ 6.2	E2	TDZ 16	55	
TDZ 6.8	F2	TDZ 18	65	
TDZ 7.5	H2	TDZ 20	75	
TDZ 8.2	J2	TDZ 22	85	
TDZ 9.1	L2	TDZ 24	95	
TDZ 10	05	TDZ 27	A5	
TDZ 11	15	TDZ 30	C5	
TDZ 12	25			

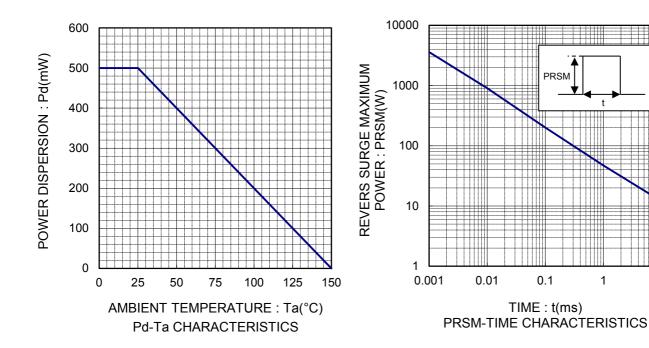
⁽²⁾ The operating resistances(Zz,Zzk) are measured by superimposing a minute alternating current on the regulated current(Iz)

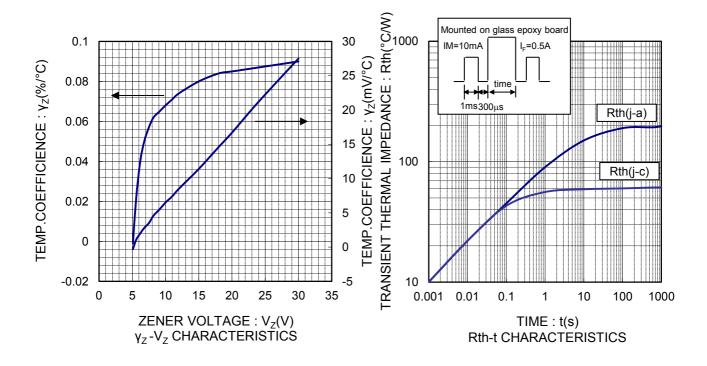
•Electrical characteristic curves



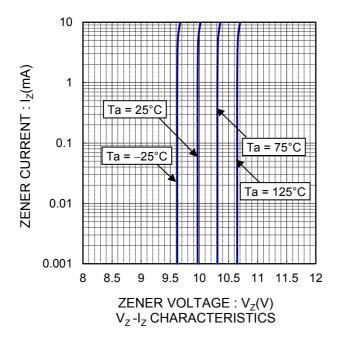
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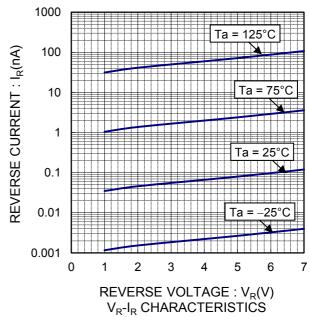
•Electrical characteristic curves

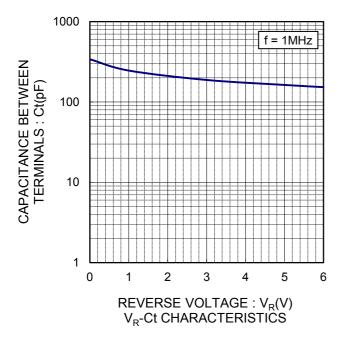


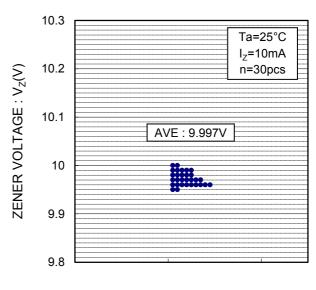


•Electrical characteristic curves



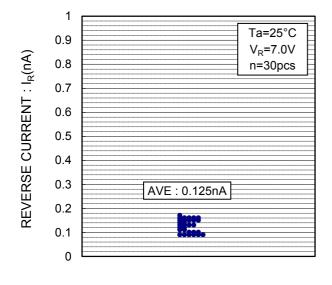


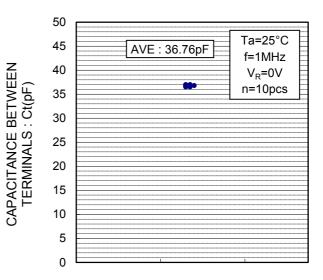




Vz DISPERSION MAP

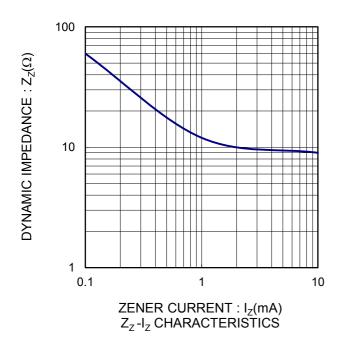
•Electrical characteristic curves





I_R DISPERSION MAP

Ct DISPERSION MAP



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