TENTATIVE TOSHIBA ZENER DIODE SILICON DIFFUSED TYPE

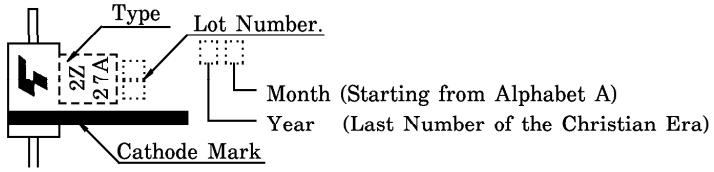
2Z12~2Z51

CONSTANT VOLTAGE REGULATION.

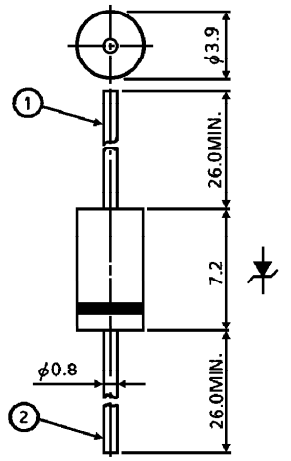
TRANSIENT SUPPRESSORS.

- Average Power Dissipation : P=1.5W
- Peak Reverse Power Dissipation
  : P_{RSM}=900W at t_w=200μs
- Zener Voltage : V_Z=12~51V
- Plastic Mold Package

MARK



Unit in mm



1. ANODE
2. CATHODE

JEDEC	—
EIAJ	—
TOSHIBA	3-4B1A

Weight : 0.47g

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P	1.5	W
Junction Temperature	T_j	−40 ~ 150	°C
Storage Temperature Range	T_{stg}	−40 ~ 150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

TYPE	ZENER CHARACTERISTICS					TEMPERATURE COEFFICIENT OF ZENER VOLTAGE		FORWARD VOLTAGE		REVERSE CURRENT	
	ZENER VOLTAGE V_Z (V)			ZENER IMPEDANCE r_d (Ω)	MEASUREMENT CURRENT	α_T (mV/°C)		V_F (V)	MEASUREMENT CURRENT	I_R (μA)	MEASUREMENT VOLTAGE
	MIN.	TYP.	MAX.	MAX.	I_Z (mA)	TYP.	MAX.	MAX.	I_F (A)	MAX.	V_R (V)
2Z12	10.8	12	13.2	30	10	8	13	1.2	0.2	5	10.2
2Z13	11.7	13	14.3	30	10	9	14	1.2	0.2	5	11.1
2Z15	13.5	15	16.5	30	10	11	17	1.2	0.2	5	12.8
2Z16	14.4	16	17.6	30	10	12	19	1.2	0.2	5	13.6
※2Z16A	15.2	16	16.8	30	10	12	19	1.2	0.2	5	13.6
2Z18	16.2	18	19.8	30	10	14	23	1.2	0.2	5	15.3
※2Z18A	17.1	18	18.9	30	10	14	23	1.2	0.2	5	15.3
2Z20	18.0	20	22.0	30	10	16	26	1.2	0.2	5	17.1
2Z22	19.8	22	24.2	30	10	18	28	1.2	0.2	5	18.8
2Z24	21.6	24	26.4	30	10	20	32	1.2	0.2	5	20.5
2Z27	24.3	27	29.7	30	10	23	36	1.2	0.2	5	23.1
※2Z27A	25.7	27	28.3	30	10	23	36	1.2	0.2	5	23.1
2Z30	27.0	30	33.0	30	10	25	40	1.2	0.2	5	25.6
2Z33	29.7	33	36.3	30	10	26	41	1.2	0.2	5	28.2
2Z36	32.4	36	39.6	30	9	28	45	1.2	0.2	5	30.8
2Z43	38.7	43	47.3	40	7	33	53	1.2	0.2	5	34.4
2Z47	42.3	47	51.7	65	6	38	60	1.2	0.2	5	40.2
2Z51	45.9	51	56.1	65	6	43	68	1.2	0.2	5	43.6

(Note) ※Production upon request.

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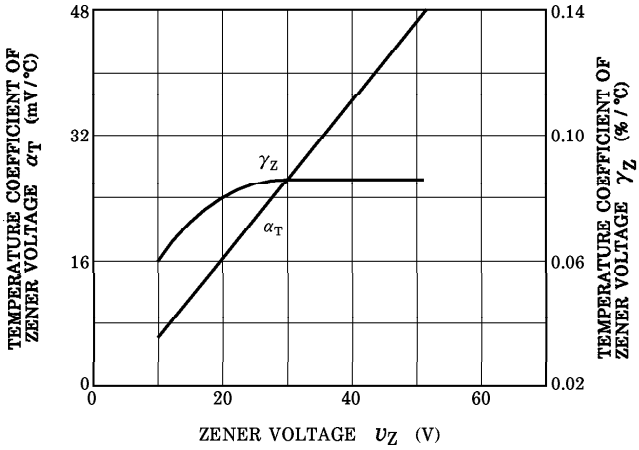
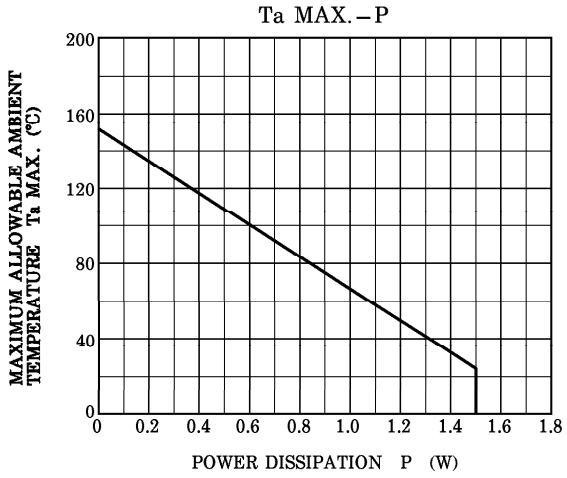
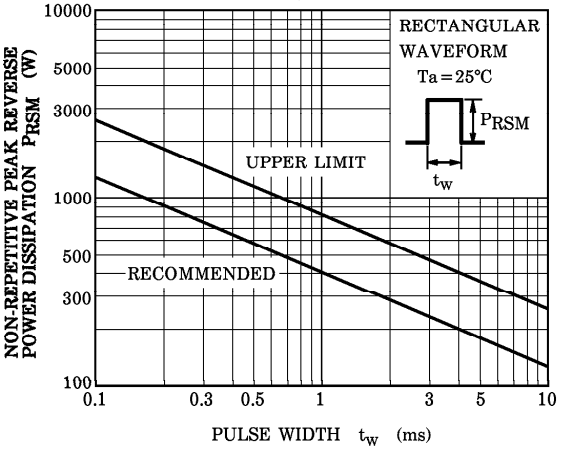
$\alpha_T - v_Z$



Ta MAX. – P



$P_{RSM} - V_R$



$r_{th\,(j\text{-}a)} - t$