

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09383

D. T-11-13

1Z6.2 ~ 1Z30

Silicon Diffused Type

Zener Diode

APPLICATIONS:

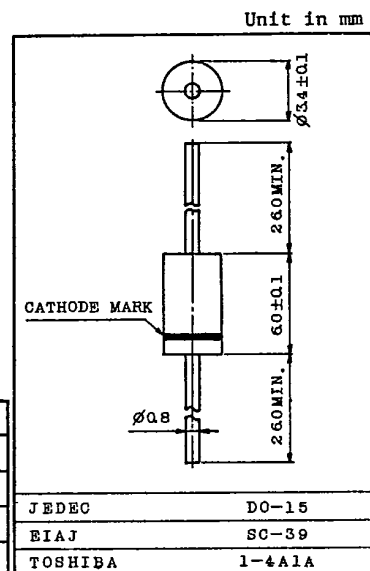
- . CONSTANT VOLTAGE REGULATION
- . TRANSIENT SUPPRESSORS

FEATURES:

- . Average Power Dissipation : $P=1W$
- . Peak Reverse Power Dissipation
: $P_{RSM}=200W$ at $t_w=200\mu s$
- . Zener Voltage : $V_Z=6.2 \sim 30V$
- . Tolerance of Zener Voltage (V_Z) : $\pm 10\%$
- . Plastic Mold Package

MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P	1	W
Maximum Zener Current	I_{ZM}	(Note 1)	-
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 150$	$^\circ C$



Weight : 0.424g

Note 1 : See Electrical characteristics

2 : Soldering : 5mm is the minimum to be kept between case and soldering part.

3 : Lead Bending : 5mm is the minimum to be kept from the case to the bend lead wire.

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

TYPE	ZENER VOLTAGE $V_Z @ I_Z$ (V)			ZENER IMPE- DANCE r_d @ I_Z (Ω)	ZENER CURRENT I_Z (mA)	MAXIMUM ZENER CURRENT I_{ZM} (mA)	TEMPERATURE COEFFICIENT OF ZENER VOLTAGE r_Z (mV/ $^\circ C$)		FORWARD VOLTAGE $V_F @ I_F$ (V)	FORWARD CURRENT I_F (A)	REVERSE CURRENT $I_R @ V_R$ (μA)	REVERSE VOLTAGE V_R (V)
	MIN.	TYP.	MAX.	MAX.			TYP.	MAX.	MAX.		MAX.	
1Z6.2	5.6	6.2	6.8	60	10	150	1.5	2	2	0.2	10	2.0
1Z6.8	6.2	6.8	7.4	60	10	135	3	4	2	0.2	10	3.0
1Z7.5	6.8	7.5	8.3	30	10	120	4	5	2	0.2	10	4.5
1Z8.2	7.4	8.2	9.1	30	10	115	4	6	2	0.2	10	4.9
1Z9.1	8.2	9.1	10.1	30	10	105	5	8	2	0.2	10	5.5
1Z10	9.0	10	11.0	30	10	95	6	9	2	0.2	10	6.0
1Z11	9.9	11	12.1	30	10	85	7	11	2	0.2	10	7.0
1Z12	10.8	12	13.2	30	10	80	8	13	2	0.2	10	8.0
1Z13	11.7	13	14.3	30	10	70	9	14	2	0.2	10	9.0

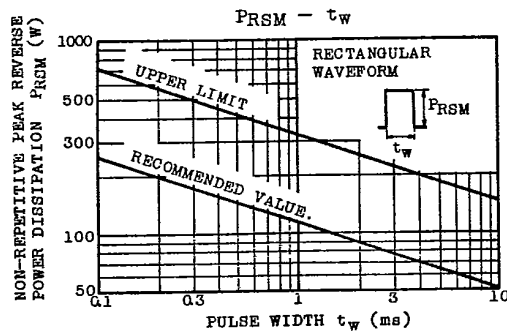
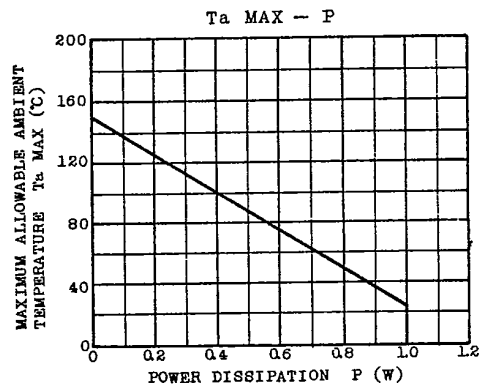
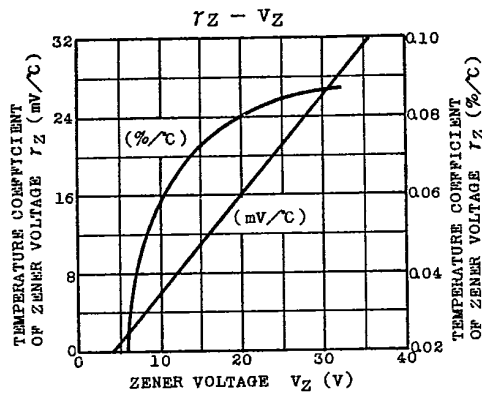
TOSHIBA CORPORATION

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TYPE	ZENER VOLTAGE			ZENER IMPE- DANCE r_d @ I_Z (Ω)	ZENER CURRENT I_Z (mA)	MAXIMUM ZENER CURRENT I_{ZM} (mA)	TEMPERATURE COEFFICIENT OF ZENER VOLTAGE r_Z (mV/ $^{\circ}$ C)		FORWARD VOLTAGE	FORWARD CURRENT	REVERSE CURRENT	REVERSE VOLTAGE
	V_Z @ I_Z (V)						V_F @ I_F (V)	I_F	I_R @ V_R (μ A)	V_R		
	MIN.	TYP.	MAX.	MAX.	(A)	TYP.	MAX.	MAX.	(A)	MAX.	(V)	
1Z15	13.5	15	16.5	30	10	63	11	17	2	0.2	10	10.0
1Z16	14.4	16	17.6	30	10	58	12	19	2	0.2	10	11.0
1Z18	16.2	18	19.8	30	10	52	14	23	2	0.2	10	13.0
1Z20	18.0	20	22.0	30	10	47	16	26	2	0.2	10	14.0
1Z22	19.8	22	24.2	30	10	43	18	28	2	0.2	10	16.0
1Z24	21.6	24	26.4	30	10	38	20	32	2	0.2	10	17.0
1Z27	24.3	27	29.7	30	10	34	23	36	2	0.2	10	19.0
1Z30	27.0	30	33.0	30	10	31	25	40	2	0.2	10	21.0



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