TOSHIBA ZENER DIODE SILICON EPITAXIAL TYPE

CRY75~CRZ47

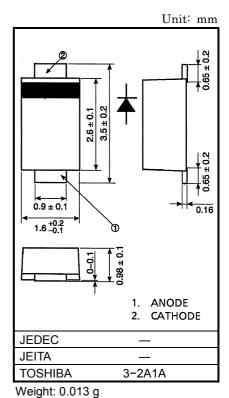
USE IN COMMUNICATION, AUTOMATION AND MEASUREMENT EQUIPMENT CONSTANT VOLTAGE REGULATION TRANSIENT SUPPRESSORS

- Average Power Dissipation : P = 0.7 W
- Zener Voltage $: V_Z = 6.2 \sim 47 V$

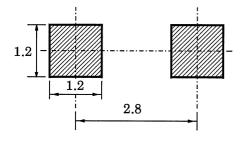
 Suitable for Compact Assembly Because of Small Surface Mount Package "S-FLATTM" (Toshiba Package name)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	Р	700	mW
Junction Temperature	Тj	− 40 ~ 150	°C
Storage Temperature Range	T _{stg}	− 40 ~ 150	°C



STANDARD SOLDERING PAD



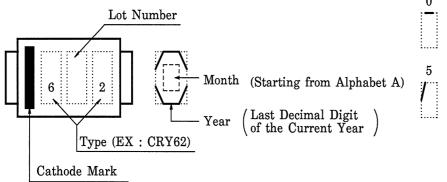
TOSHIBA

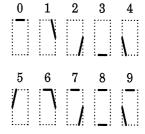
MARKING

FOLLOWING INDICATES

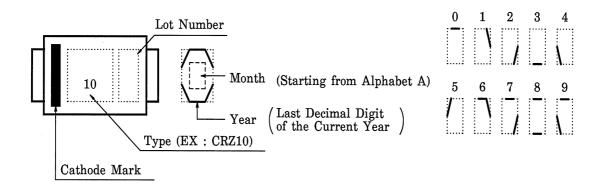
THE DATE OF MANUFACTURE

① CRY62~CRY91





② CRZ10~CRZ47



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

	ZENER VOLTAGE			ZENER IMPEDANCE		TEMPERATURE		FORWARD VOLTAGE		REVERSE CURRENT		
TYPE	V _Z (V)		MEASURE- MENT CURRENT Iz (mA)	r _d MEASU (Ω) CURRE Iz	MEASURE- MENT CURRENT Iz (mA)	VOLTAGE		V _F (V)	MEASURE- MENT CURRENT IF (A)	I _R (μΑ)	MEASURE- MENT VOLTAGE V _R (V)	
	MIN	TYP.	MAX		MAX	(1177)	TYP.	MAX	MAX	(~)	MAX	(•)
CRY62	5.6	6.2	6.8	10	60	10	2	3	1.0	0.2	10	3.0
CRY68	6.1	6.8	7.5	10	60	10	3	4	1.0	0.2	10	3.0
CRY75	6.8	7.5	8.3	10	30	10	4	5	1.0	0.2	10	4.5
CRY82	7.4	8.2	9.0	10	30	10	4	6	1.0	0.2	10	4.9
CRY91	8.2	9.1	10.0	10	30	10	5	8	1.0	0.2	10	5.5
CRZ10	9.0	10.0	11.0	10	30	10	6	9	1.0	0.2	10	6.0
CRZ11	9.9	11.0	12.1	10	30	10	7	11	1.0	0.2	10	7.0
CRZ12	10.8	12.0	13.2	10	30	10	8	13	1.0	0.2	10	8.0
CRZ13	11.7	13.0	14.3	10	30	10	9	14	1.0	0.2	10	9.0
CRZ15	13.5	15.0	16.5	10	30	10	11	17	1.0	0.2	10	10.0
CRZ16	14.4	16.0	17.6	10	30	10	12	19	1.0	0.2	10	11.0
CRZ18	16.2	18.0	19.8	10	30	10	14	23	1.0	0.2	10	13.0
CRZ20	18.0	20.0	22.0	10	30	10	16	26	1.0	0.2	10	14.0
CRZ22	19.8	22.0	24.2	10	30	10	18	28	1.0	0.2	10	16.0
CRZ24	21.6	24.0	26.4	10	30	10	20	32	1.0	0.2	10	17.0
CRZ27	24.3	27.0	29.7	10	30	10	23	36	1.0	0.2	10	19.0
CRZ30	27.0	30.0	33.0	10	30	10	25	40	1.0	0.2	10	21.0
CRZ33	29.7	33.0	36.3	10	30	10	26	41	1.0	0.2	10	26.4
CRZ36	32.4	36.0	39.6	9	30	9	28	45	1.0	0.2	10	28.8
CRZ39	35.1	39.0	42.9	8	35	8	30	48	1.0	0.2	10	31.2
CRZ43	38.7	43.0	47.3	7	40	7	33	53	1.0	0.2	10	34.4
CRZ47	42.3	47.0	51.7	6	65	6	38	60	1.0	0.2	10	37.6

TOSHIBA

tw

Rectangular Pulse Ta = 25°C

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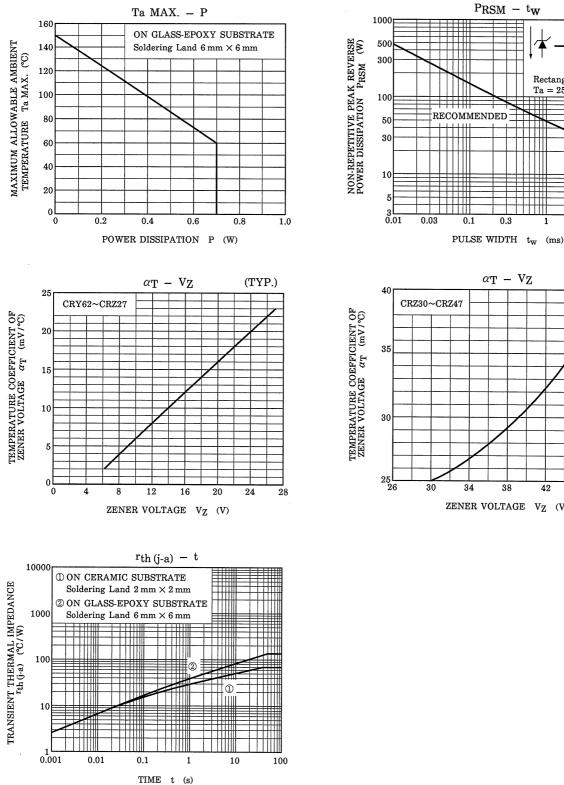
0.3

PRSM

(TYP.)

10

3



38 42 46 50 ZENER VOLTAGE VZ (V)

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