TOSHIBA Zener Diode Silicon Epitaxial Type

CRY62~CRZ47

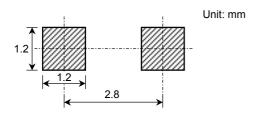
Use in Communication, Automation and Measurement Equipment
Constant Voltage Regulation
Transient Suppressors

- Average power dissipation: P = 0.7 W
- Zener voltage: $Vz = 6.2 \sim 47 \text{ V}$
- Suitable for compact assembly due to 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	Tj	-40 ~ 150	°C
Storage temperature range	T _{stg}	− 40 ~ 150	°C

Standard Soldering Pad

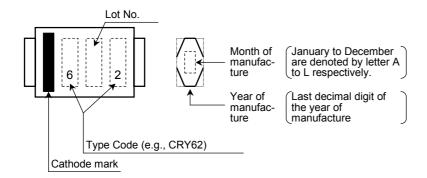


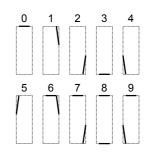
Weight: 0.013 g (typ.)

Marking

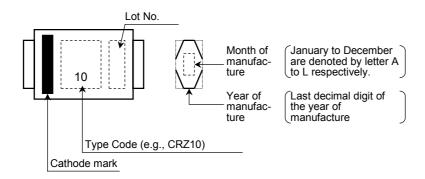
Following Indicates the Date of Manufacture

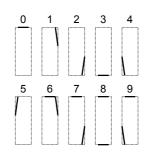
CRY62~CRY91





CRZ10~CRZ47

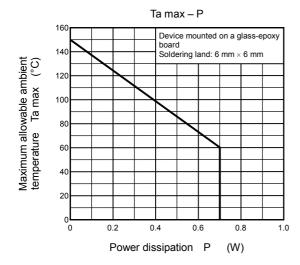


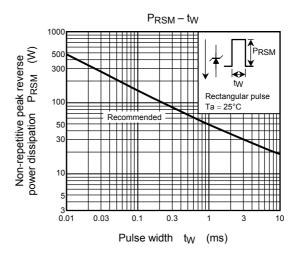


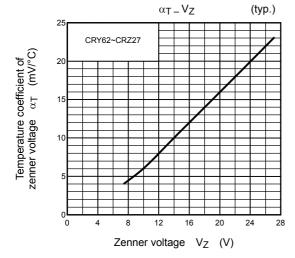
Electrical Characteristics (Ta = 25°C)

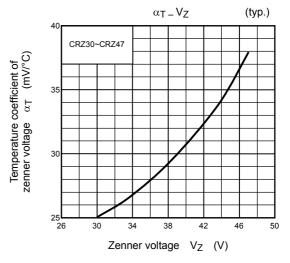
	Zener Voltage			Zener Impedance		Temperature Coefficient		Forward Voltage		Reverse Current		
Product No.	V _Z (V)		Measure- ment Current	$r_d \in \mathcal{C}$ Measure-ment $r_d \in \mathcal{C}$ Current $r_d \in \mathcal{C}$	of Zener Voltage α _T (mV / °C)		V _F (V) Measure -ment Current I _F	I _R (μΑ)	Voltage			
	Min	Тур.	Max	(mA)	Max	(mA)	Тур.	Max	Max	(A)	Max	(V)
CRY62	5.6	6.2	6.8	10	60	10	2	3	1.0	0.2	10	3.0
CRY68	6.2	6.8	7.4	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

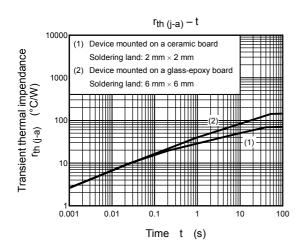
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