

TOSHIBA Diode Silicon Epitaxial Planar Type

015AZ2.0~015AZ12

Constant Voltage Regulation Applications

- Small package
- Nominal voltage tolerance about $\pm 2.5\%$
(2.0V~12V)

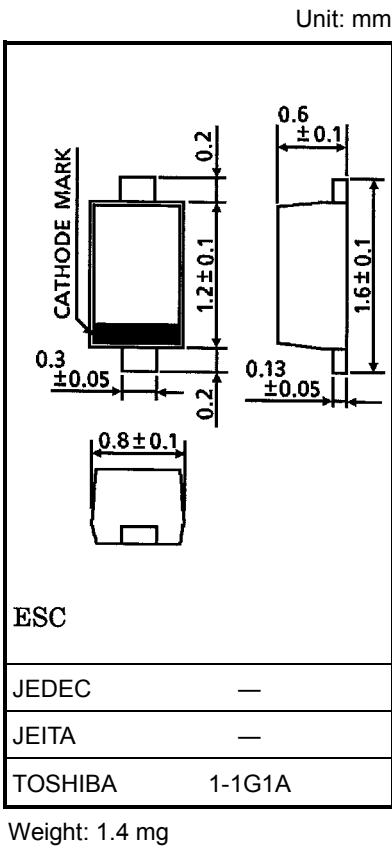
Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Power dissipation	P*	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	Tstg	-55~125	°C

* Mounted on a glass epoxy circuit board of 20 × 20mm,
Pad dimension of 4 × 4mm.

Electrical Characteristics

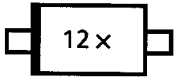
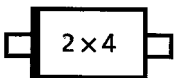
(See Page 2~3)



Marking

Example 1: 015AZ12- $\times$

Example 2: 015AZ12- $\times$



Pin Assignment (top view)



Electrical Characteristics (Ta = 25°C)

Type No.		Zener Voltage			Dynamic Impedance		Knee Dynamic Impedance		Reverse Current	
		* V _Z (V)		I _Z (mA)	Z _Z (Ω)	I _Z (mA)	Z _{ZK} (Ω)	I _Z (mA)	I _R (μA)	V _R (V)
		Min	Max		Max		Max		Max	
015AZ2.0 **	X	1.85	2.05	5	100	5	1000	0.5	120	0.5
	Z	1.95	2.15							
015AZ2.2 **	X	2.05	2.26	5	100	5	1000	0.5	120	1.0
	Z	2.16	2.38							
015AZ2.4	X	2.28	2.50	5	100	5	1000	0.5	120	1.0
	Z	2.40	2.60							
015AZ2.7	X	2.50	2.75	5	110	5	1000	0.5	120	1.0
	Z	2.65	2.90							
015AZ3.0	X	2.80	3.05	5	120	5	1000	0.5	50	1.0
	Z	2.95	3.20							
015AZ3.3	X	3.10	3.35	5	130	5	1000	0.5	20	1.0
	Z	3.25	3.50							
015AZ3.6	X	3.40	3.65	5	130	5	1000	0.5	10	1.0
	Z	3.55	3.80							
015AZ3.9	X	3.70	3.97	5	130	5	1000	0.5	10	1.0
	Z	3.87	4.10							
015AZ4.3	X	4.00	4.23	5	130	5	1000	0.5	5	1.0
	Y	4.13	4.35							
	Z	4.25	4.50							
015AZ4.7	X	4.40	4.63	5	120	5	1000	0.5	5	1.0
	Y	4.53	4.76							
	Z	4.66	4.90							
015AZ5.1	X	4.80	5.07	5	70	5	1000	0.5	1	1.5
	Y	4.97	5.24							
	Z	5.14	5.40							
015AZ5.6	X	5.30	5.63	5	40	5	900	0.5	1	2.5
	Y	5.43	5.81							
	Z	5.61	6.00							
015AZ6.2	X	5.80	6.20	5	30	5	500	0.5	1	3.0
	Y	6.00	6.39							
	Z	6.19	6.60							
015AZ6.8	X	6.40	6.80	5	25	5	150	0.5	0.5	5.0
	Y	6.60	7.02							
	Z	6.82	7.20							

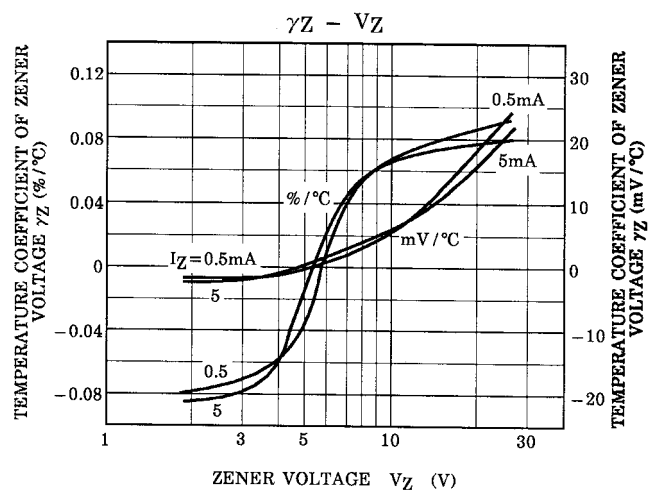
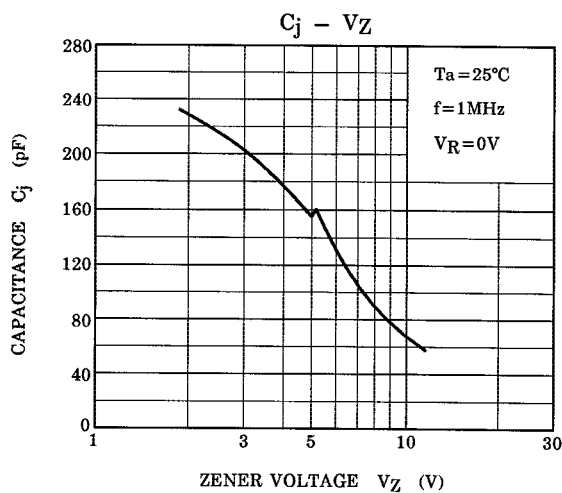
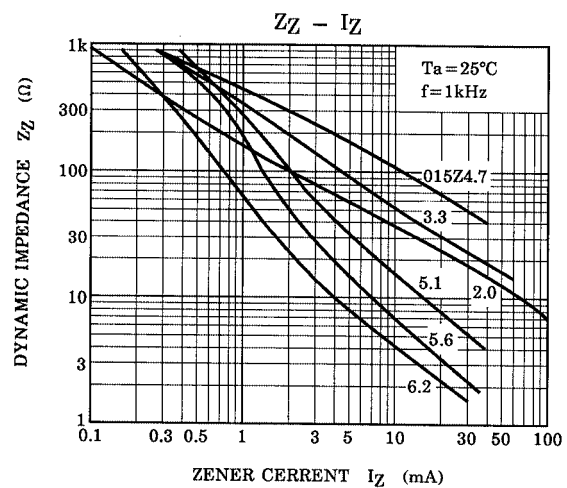
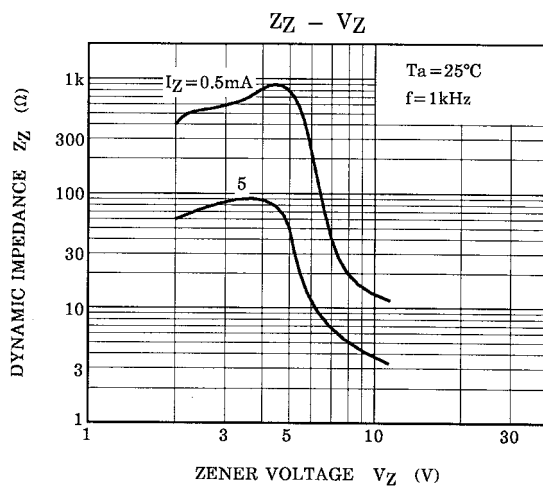
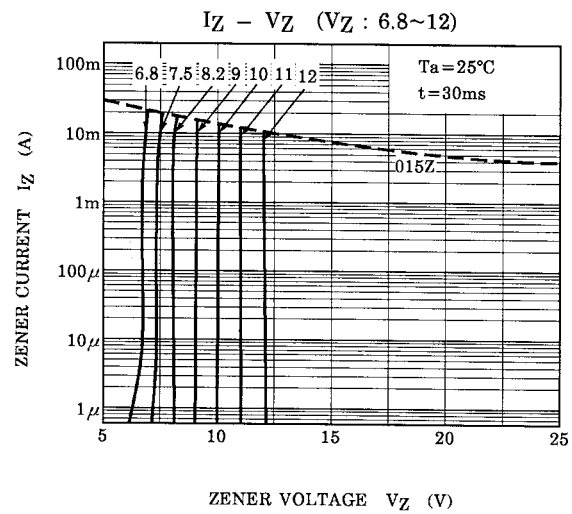
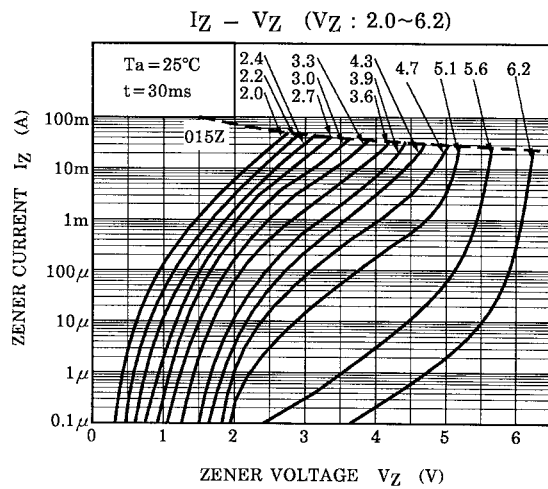
* : Test time: t = 30ms

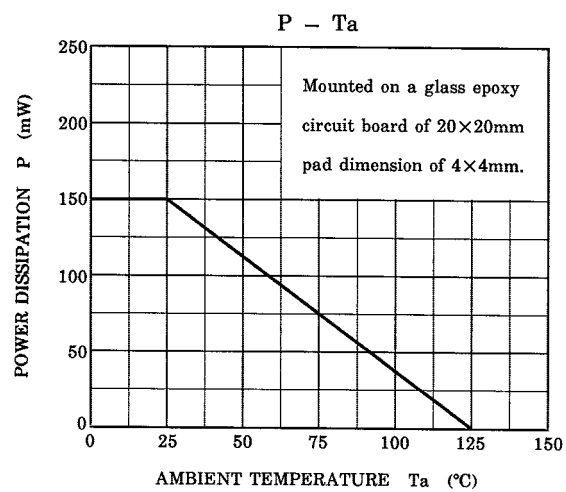
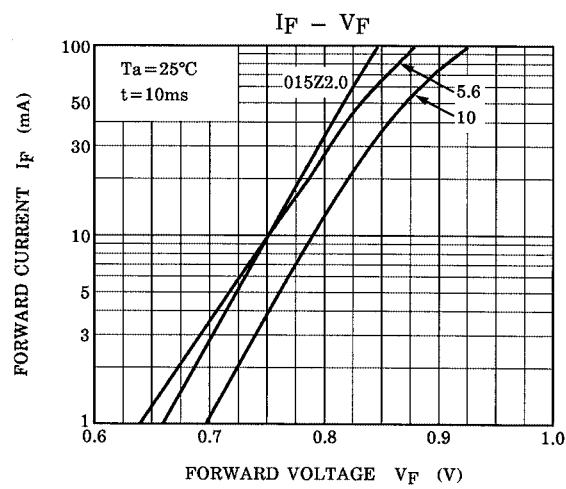
** : Product by order.

Electrical Characteristics (Ta = 25°C)

Type No.		Zener Voltage		I _Z (mA)	Dynamic Impedance		Knee Dynamic Impedance		Reverse Current	
		* V _Z (V)			Z _Z (Ω)	I _Z (mA)	Z _{ZK} (Ω)	I _Z (mA)	I _R (μA)	V _R (V)
		Min	Max		Max		Max		Max	
015AZ7.5	X	7.00	7.43	5	23	5	120	0.5	0.5	6.0
	Y	7.23	7.66							
	Z	7.46	7.90							
015AZ8.2	X	7.70	8.16	5	20	5	120	0.5	0.5	6.5
	Y	7.96	8.43							
	Z	8.23	8.70							
015AZ9.1	X	8.50	9.00	5	18	5	120	0.5	0.5	7.0
	Y	8.80	9.30							
	Z	9.10	9.60							
015AZ10	X	9.40	9.93	5	15	5	120	0.5	0.5	8.0
	Y	9.73	10.26							
	Z	10.06	10.60							
015AZ11	X	10.40	10.98	5	15	5	120	0.5	0.5	8.5
	Y	10.73	11.26							
	Z	11.06	11.60							
015AZ12	X	11.40	11.93	5	15	5	110	0.5	0.5	9.0
	Y	11.73	12.26							
	Z	12.06	12.60							

* : Test time: t = 30ms





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000707EAA

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