

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

015AZ2.0~015AZ12

CONSTANT VOLTAGE REGULATION APPLICATIONS

Unit in mm

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

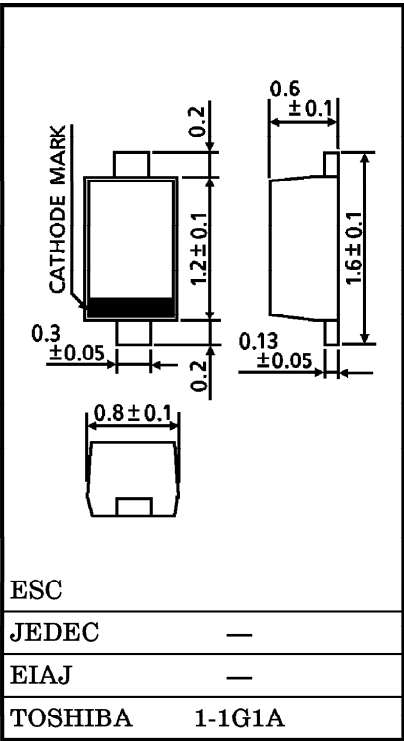
MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC            | SYMBOL | RATING  | UNIT |
|---------------------------|--------|---------|------|
| Power Dissipation         | P*     | 200     | 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)

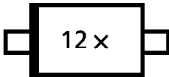
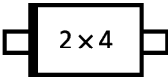


Weight : 1.4mg

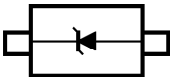
Marking

Example 1 : 015AZ2.4- x

Example 2 : 015AZ12- x



PIN ASSIGNMENT (TOP VIEW)



961001EAA2

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## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| TYPE No.    |   | ZENER<br>VOLTAGE     |      |                        | DYNAMIC<br>IMPEDANCE |                        | KNEE DYNAMIC<br>IMPEDANCE |                        | REVERSE<br>CURRENT  |                       |
|-------------|---|----------------------|------|------------------------|----------------------|------------------------|---------------------------|------------------------|---------------------|-----------------------|
|             |   | ※ V <sub>Z</sub> (V) |      | I <sub>Z</sub><br>(mA) | Z <sub>Z</sub> (Ω)   | I <sub>Z</sub><br>(mA) | Z <sub>ZK</sub> (Ω)       | I <sub>Z</sub><br>(mA) | I <sub>R</sub> (μA) | V <sub>R</sub><br>(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 |                        |                      |                        |                           |                        |                     |                       |

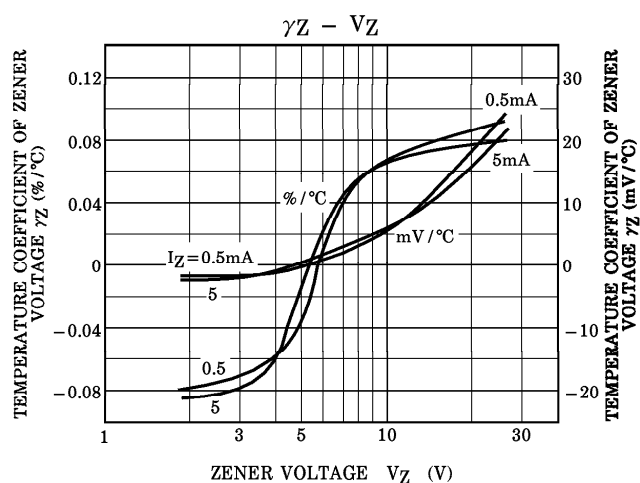
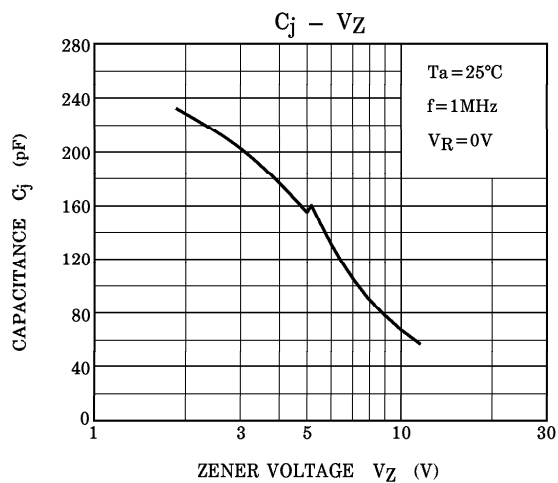
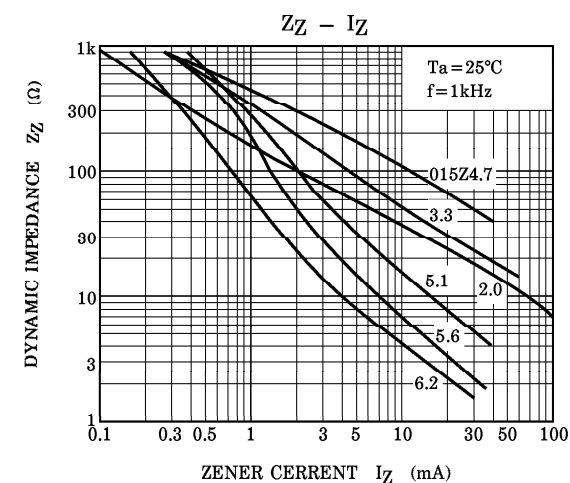
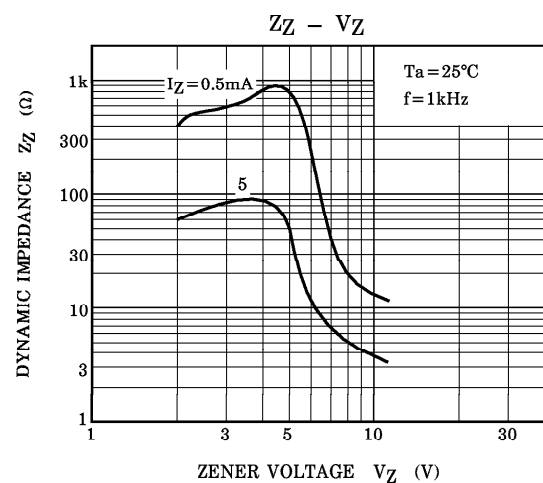
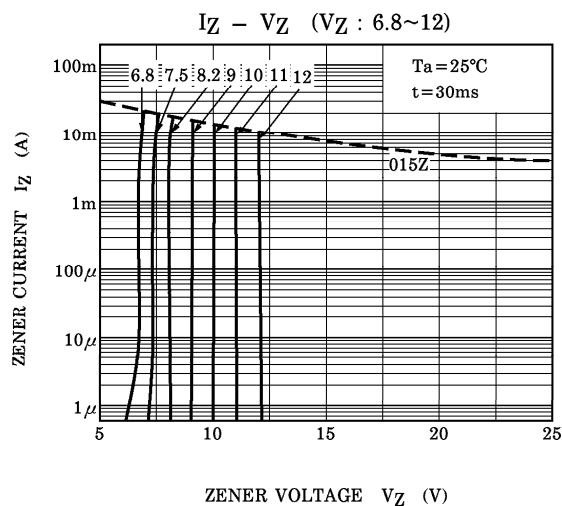
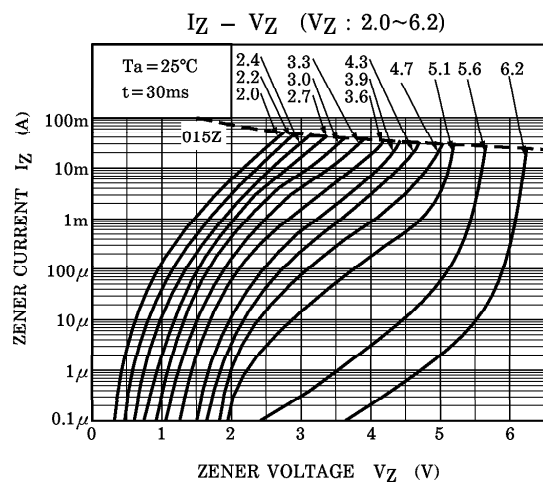
※ : Test time : t=30ms

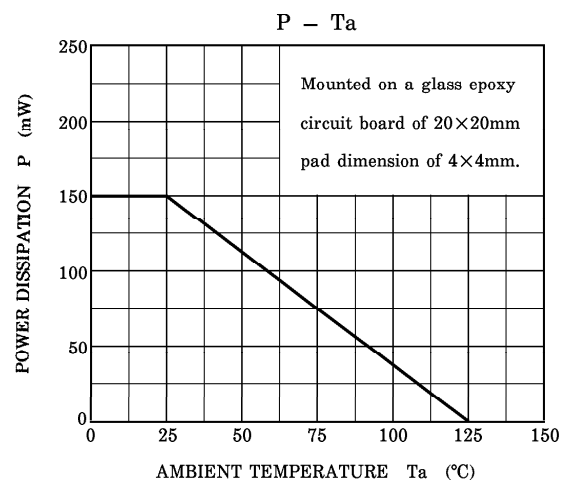
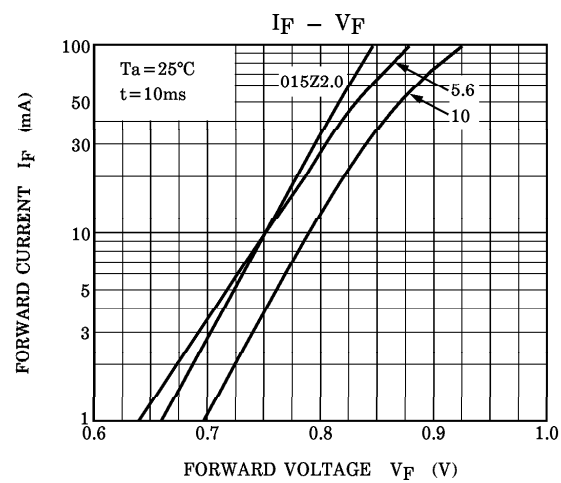
※※ : Product by order.

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| TYPE No. |   | ZENER<br>VOLTAGE     |       |                        | DYNAMIC<br>IMPEDANCE |                        | KNEE DYNAMIC<br>IMPEDANCE |                        | REVERSE<br>CURRENT  |                       |
|----------|---|----------------------|-------|------------------------|----------------------|------------------------|---------------------------|------------------------|---------------------|-----------------------|
|          |   | ※ V <sub>Z</sub> (V) |       | I <sub>Z</sub><br>(mA) | Z <sub>Z</sub> (Ω)   | I <sub>Z</sub><br>(mA) | Z <sub>ZK</sub> (Ω)       | I <sub>Z</sub><br>(mA) | I <sub>R</sub> (μA) | V <sub>R</sub><br>(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







Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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