

XBZ02P3601-G

ETR39007-001

Zener Diode

FEATURES

Environmentally Friendly : EU RoHS Compliant, Pb Free

PRODUCT NAME

| PRODUCT NAME | PACKAGE | ORDER UNIT |
|----------------|----------|------------|
| XBZ02P3601-G * | SOD-523P | 5,000/Reel |

* The "-G" suffix denotes Halogen and Antimony free as well as being fully EU RoHS compliant

MARKING



ABSOLUTE MAXIMUM RATINGS

Ta=25°C

| PARAMETER | SYMBOL | RATINGS | UNIT |
|----------------------|--------|--------------------|------|
| Power Dissipation | Pd | 200 ⁽¹⁾ | mW |
| Junction Temperature | Tj | 150 | °C |
| Storage Temperature | Tstg | -55 to +150 | °C |

⁽¹⁾ PCB mounted

ELECTRICAL CHARACTERISTICS

Ta=25°C

| PARAMETER | SYMBOL | TEST CONDITIONS | LIMITS | | | UNIT |
|-----------------|------------------|-----------------------|--------|------|------|------|
| | | | MIN. | TYP. | MAX. | |
| Zener Voltage | V _Z | I _{ZT} =5mA | 34.2 | 36 | 37.8 | V |
| Zener Impedance | Z _{ZT1} | I _{ZT} =5mA | - | - | 90 | Ω |
| | Z _{ZT2} | I _{ZT} =1mA | - | - | 350 | Ω |
| Reverse Current | I _R | V _R =25.2V | - | - | 0.1 | μA |

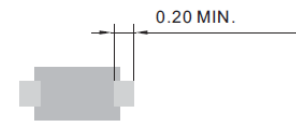
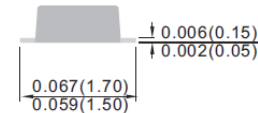
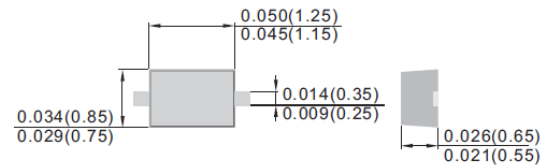
APPLICATIONS

- Voltage Regulation

PACKAGING INFORMATION

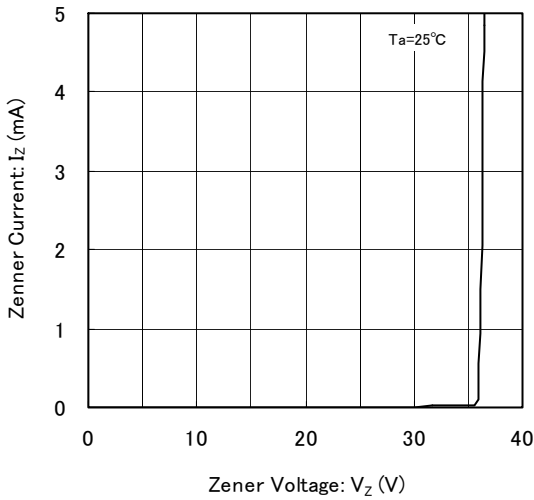
- SOD-523P

Unit : inch (mm)

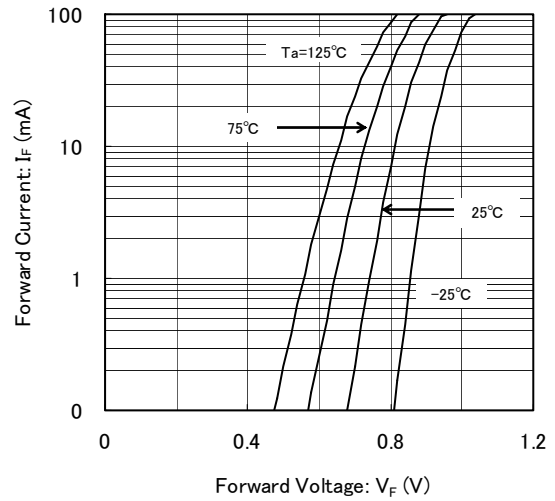


TYPICAL PERFORMANCE CHARACTERISTICS

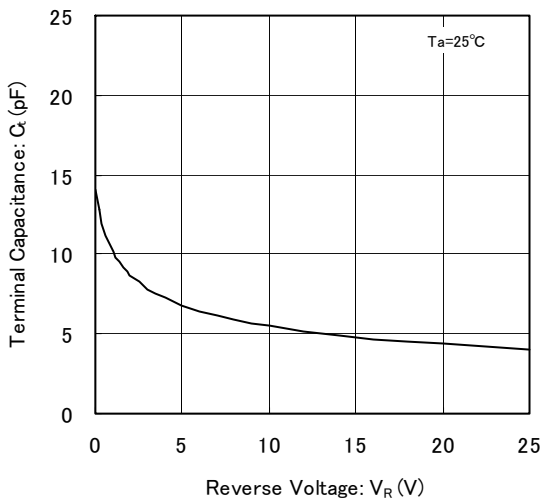
(1) Zener Current vs. Zener Voltage



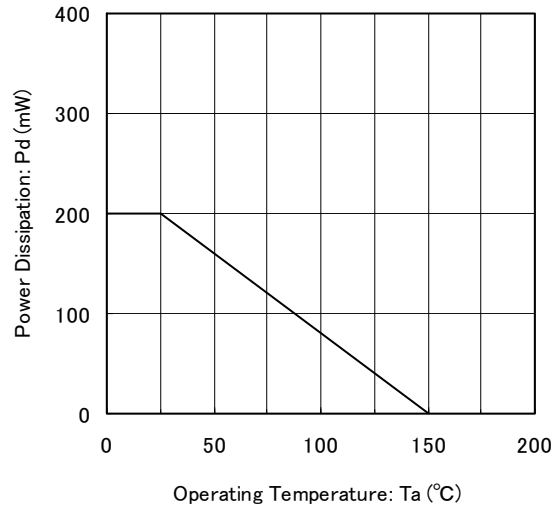
(2) Forward Current vs. Forward Voltage



(3) Terminal Capacitance vs. Reverse Voltage



(4) Power Dissipation vs. Operating Temperature



NOTES ON USE

1. Please use this IC within the absolute maximum ratings.

Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC.

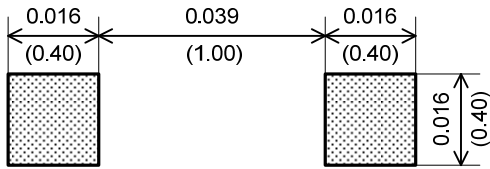
2. Torex places an importance on improving our products and their reliability.

We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

REFERENCE PATTERN LAYOUT

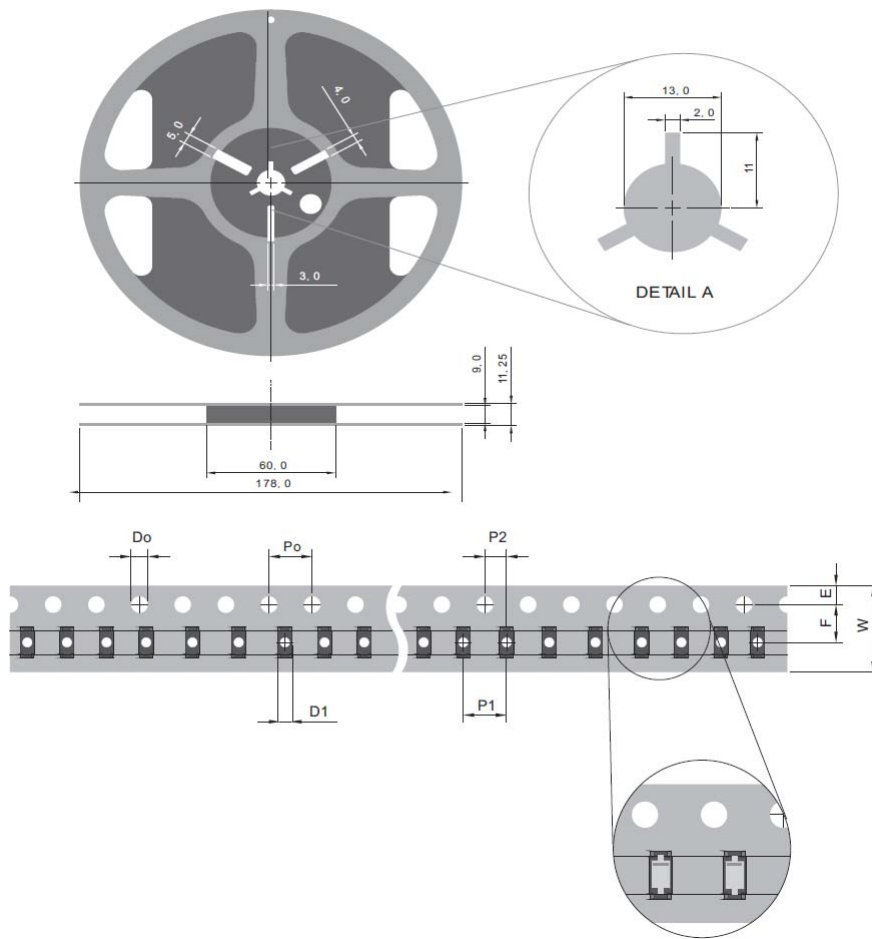
● SOD-523P

Unit : inch (mm)



TAPING SPECIFICATIONS

●SOD-523P



| SYMBOL | mm |
|----------------|----------------------|
| D ₀ | 1.50 ± 0.10 |
| D ₁ | 0.50 ± 0.25 |
| E | 1.75 ± 0.10 |
| F | 3.50 ± 0.05 |
| P ₀ | 4.00 ± 0.10 |
| P ₁ | 4.00 ± 0.10 |
| P ₂ | 2.00 ± 0.05 |
| W | 8.00 + 0.3 - 0.15 |

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