

XBZ02P1201-G

Zener Diode

ETR39003-002

FEATURES

Environmentally Friendly : EU RoHS Compliant, Pb Free

APPLICATIONS

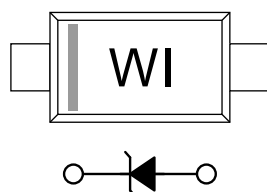
● Voltage Regulation

PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBZ02P1201-G *	SOD-523P	5,000/Reel

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

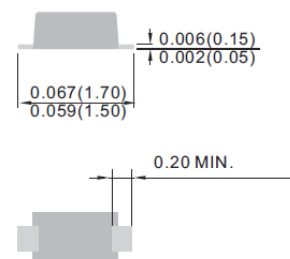
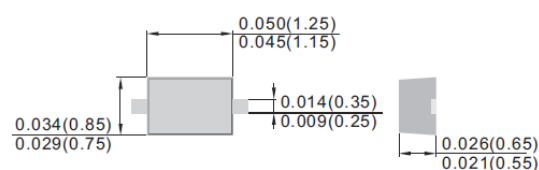
MARKING



PACKAGING INFORMATION

● SOD-523P

Unit : inch (mm)



ABSOLUTE MAXIMUM RATINGS

Ta=25°C

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

(*) PCB mounted

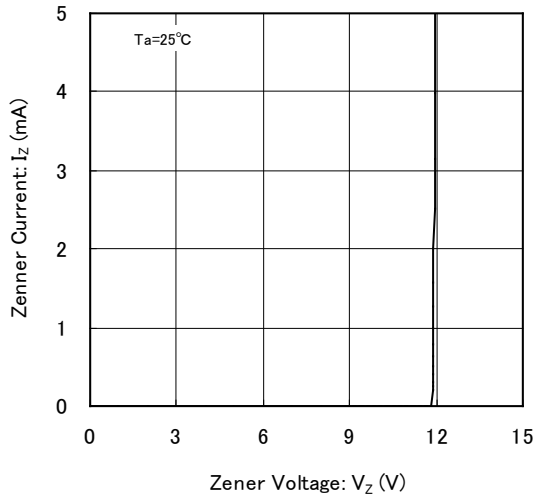
ELECTRICAL CHARACTERISTICS

Ta=25°C

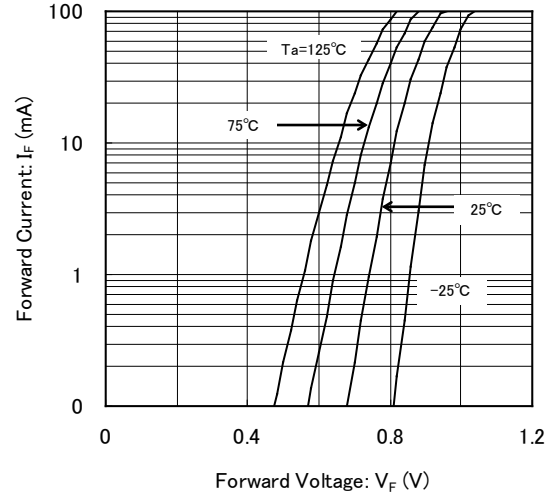
PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Zener Voltage	V _Z	I _{ZT} =5mA	11.4	12	12.6	V
Zener Impedance	Z _{1T1}	I _{ZT} =5mA	-	-	25	Ω
	Z _{1T2}	I _{ZT} =1mA	-	-	150	Ω
Reverse Current	I _R	V _R =8.0V	-	-	0.1	μA

TYPICAL PERFORMANCE CHARACTERISTICS

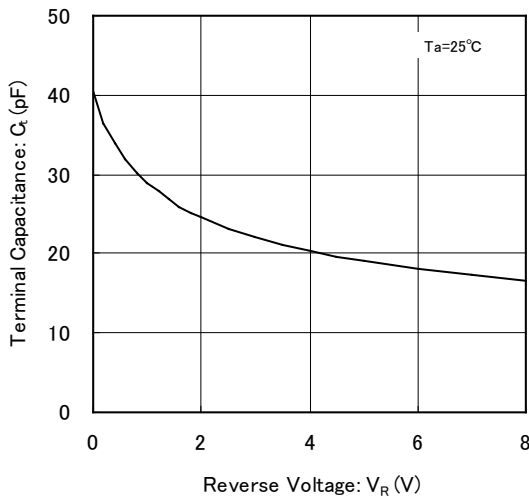
(1) Zener Current vs. Zener Voltage



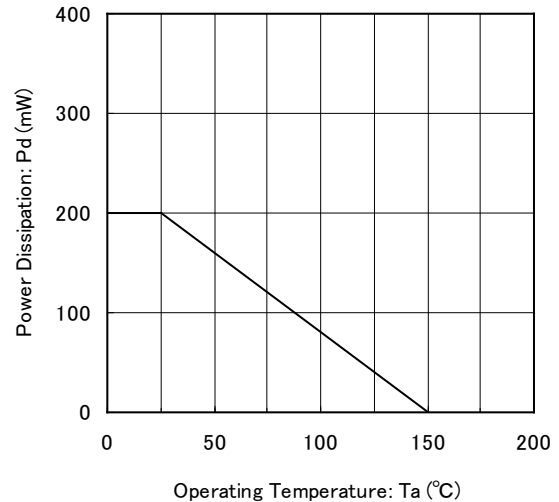
(2) Forward Current vs. Forward Voltage



(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.

■PACKAGING INFORMATION

For the latest package information go to, www.torexsemi.com/technical-support/packages

PACKAGE	OUTLINE / LAND PATTERN	THERMAL CHARACTERISTICS
SOD-523P	SOD-523P PKG	

1. The product and product specifications contained herein are subject to change without notice to improve performance characteristics. Consult us, or our representatives before use, to confirm that the information in this datasheet is up to date.
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5. Although we make continuous efforts to improve the quality and reliability of our products; nevertheless Semiconductors are likely to fail with a certain probability. So in order to prevent personal injury and/or property damage resulting from such failure, customers are required to incorporate adequate safety measures in their designs, such as system fail safes, redundancy and fire prevention features.
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7. Please use the product listed in this datasheet within the specified ranges.
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