ETR38002-001

Switching Diode

■FEATURES

Small Package

Environmentally Friendly : EU R

: EU RoHS Compliant, Pb Free

■APPLICATIONS

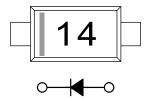
High-speed Switching

■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBW1SS400-G *	SOD-523P	5,000pcs/Reel

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

■MARKING



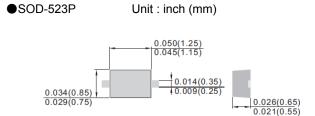
■ ABSOLUTE MAXIMUM RATINGS

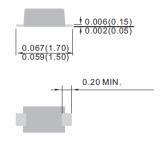
Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNIT
Reverse Voltage (DC)	V_R	80	V
Peak Reverse Voltage	V_{RM}	90	V
Forward Current (Average)	I _{F(AV)}	100	mA
Peak Forward Surge Current (t=1µs)	I _{FSM}	2	Α
Power Dissipation	Pd	200 (*1)	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 to +150	°C

^(*1) PCB mounted

■ PACKAGING INFORMATION





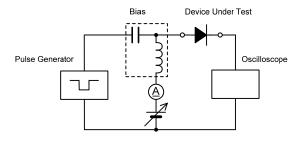
■ ELECTRICAL CHARACTERISTICS

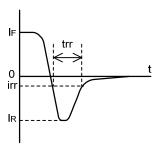
Ta=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			LINUT
			MIN.	TYP.	MAX.	UNIT
Forward Voltage	V _F	I _F =100mA			1.20	V
Reverse Current	I _R	V _R =80V	-	-	0.1	μA
Terminal Capacitance	Ct	V _R =0V, f=1MHz	-	0.5	-	pF
Reverse Recovery Time	trr	$I_F=I_R=10$ mA, irr=1mA, $R_L=100\Omega$	-	4	-	ns

■ MEASUREMENT CIRCUITS

●Reverse Recovery Time





■NOTES ON USE

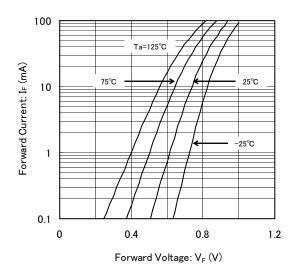
- 1. Please use this IC within the absolute maximum ratings.

 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.

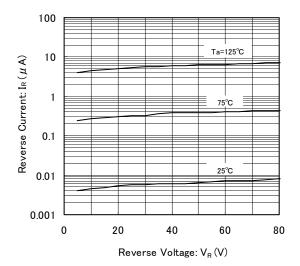
 We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

■TYPICAL PERFORMANCE CHARACTERISTICS

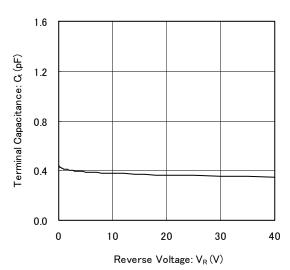
(1) Forward Current vs. Forward Voltage



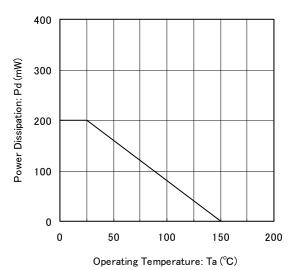
(2) Reverse Current vs. Reverse Voltage



(3) Terminal Capacitance vs. Reverse Voltage



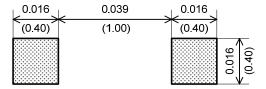
(4) Power Dissipation vs. Operating Temperature



■ REFERENCE PATTERN LAYOUT

●SOD-523P

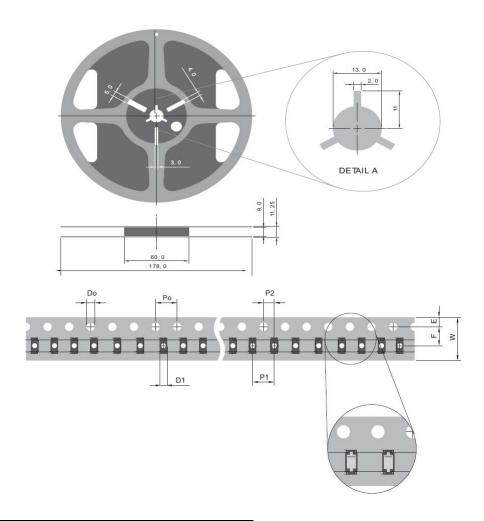
Unit: inch (mm)



■TAPING SPECIFICATIONS

●SOD-523P

Unit: mm



	0.4.50		
_	SYMBOL	mm	
	D_0	1.50 ± 0.10	
	D1	0.50 ± 0.25	
	Е	1.75 ± 0.10	
	F	3.50 ± 0.05	
	P_0	4.00 ± 0.10	
	P1	4.00 ± 0.10	
	P2	2.00 ± 0.05	
	W	8.00 + 0.3 - 0.15	

- 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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- 4. The product is neither intended nor warranted for use in equipment of systems which require extremely high levels of quality and/or reliability and/or a malfunction or failure which may cause loss of human life, bodily injury, serious property damage including but not limited to devices or equipment used in 1) nuclear facilities, 2) aerospace industry, 3) medical facilities, 4) automobile industry and other transportation industry and 5) safety devices and safety equipment to control combustions and explosions. Do not use the product for the above use unless agreed by us in writing in advance.
- 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.
- 6. Our products are not designed to be Radiation-resistant.
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