#### Switching Diode

#### ■FEATURES

Two elements Small Package Environmentally Friendly : EU RoHS Compliant, Pb Free

### ■ PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBW21P0204-G *	SOT-323	3,000/Reel

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

### ■PIN CONFIGURATION



## ABSOLUTE MAXIMUM RATINGS

			Ta=25°C
PARAMETER	SYMBOL	RATINGS	UNIT
Reverse Voltage (DC)	V <sub>R</sub>	75	V
Peak Reverse Voltage	V <sub>RM</sub>	100	V
Forward Current (Average)	I <sub>F(AV)</sub>	150	mA
Peak Forward Surge Current (t=1 دم)	I <sub>FSM</sub>	4	A
Power Dissipation	Pd	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 to +150	°C

## ■ELECTRICAL CHARACTERISTICS

						Ta=25°C
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			
			MIN.	TYP.	MAX.	UNITS
	V <sub>F1</sub>	I <sub>F</sub> =10mA	-	-	0.855	V
Forward Voltage	$V_{F2}$	I <sub>F</sub> =50mA			1.00	V
	V <sub>F3</sub>	I <sub>F</sub> =150mA			1.25	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =25V	-	-	0.03	μA
Terminal Capacitance	Ct	V <sub>R</sub> =0V, f=1MHz	-	-	1.5	pF
Reverse Recovery Time	trr	trr $I_F=I_R=10mA$ , irr=1mA, $R_L=100\Omega$		4	-	ns

APPLICATIONS

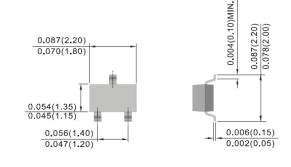
High-speed Switching

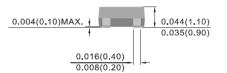
### PACKAGING INFORMATION



Unit : inch (mm)

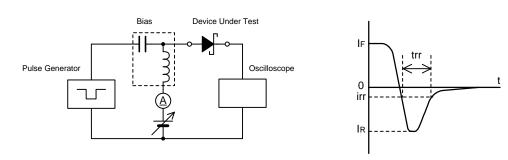
ETR38001-001





## ■ MEASUREMENT CIRCUITS

Reverse Recovery Time



## ■NOTES ON USE

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

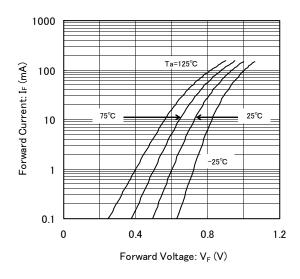
Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC.

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

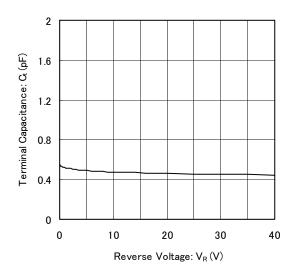
We request that users incorporate fail-safe designs and post-aging protection treatment when using Torex products in their systems.

### ■TYPICAL PERFORMANCE CHARACTERISTICS

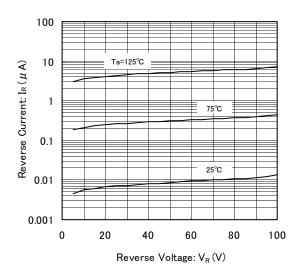
(1) Forward Current vs. Forward Voltage



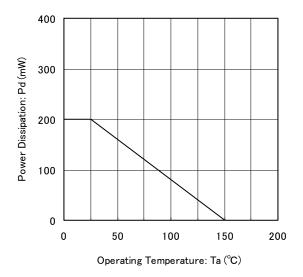
(3) Terminal Capacitance vs. Reverse Voltage



(2) Reverse Current vs. Reverse Voltage



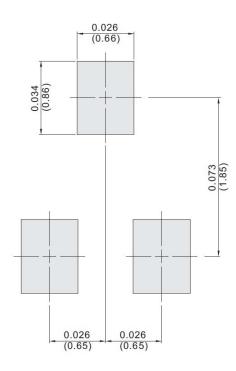
(4) Power Dissipation vs. Operating Temperature



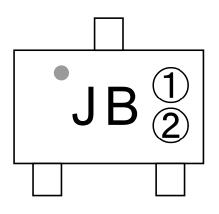
# ■REFERENCE PATTERN LAYOUT

●SOT-323

Unit : inch (mm)



## ■ MARKING

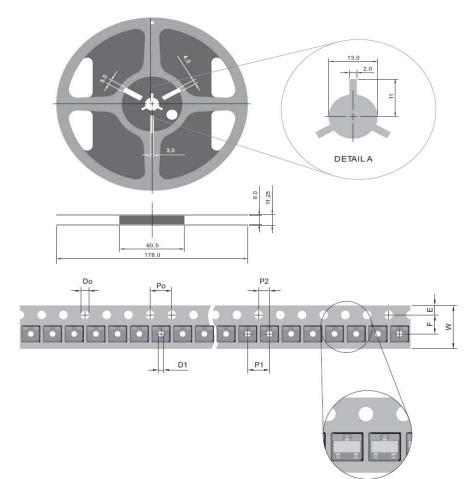


(12): Control Number

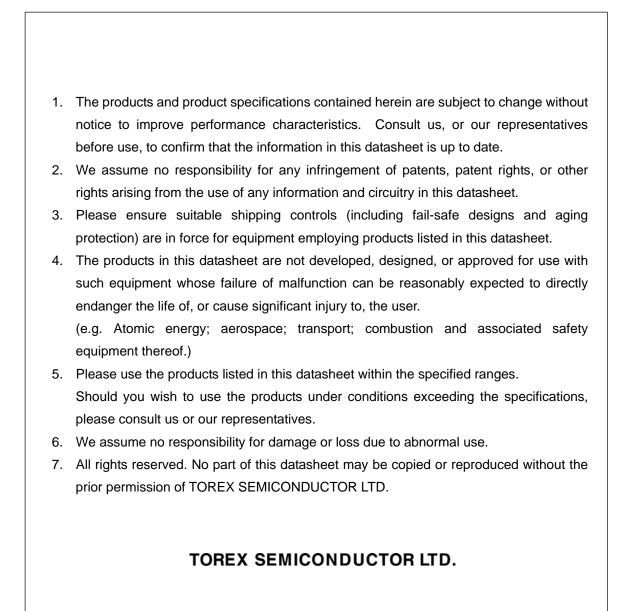
# ■TAPING SPECIFICATIONS

#### ●SOT-323

Unit : mm



	SYMBOL	mm
	D <sub>0</sub>	1.55 ± 0.05
	D1	1.00 ± 0.25
	E	1.75 ± 0.10
	F	$3.50 \pm 0.05$
	P <sub>0</sub>	$4.00 \pm 0.10$
	P1	4.00 ± 0.10
	P2	$2.00 \pm 0.05$
	W	+ 0.3 8.00 - 0.15
1		





单击下面可查看定价,库存,交付和生命周期等信息

>>Torex Semiconductor(特瑞仕)