

XBS104P11R-G

Schottky Barrier Diode, 1A, 40V Type

FEATURES

Low Forward voltage

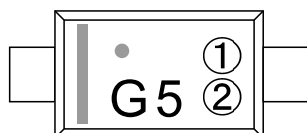
Environmentally Friendly : EU RoHS Compliant, Pb Free

PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBS104P11R-G *	SOD-123P	3,000/Reel

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

MARKING



①②: Control Number



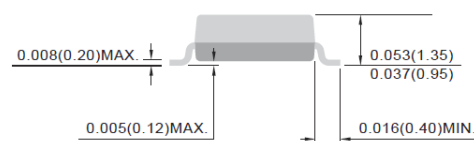
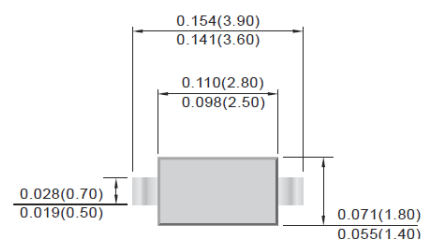
APPLICATIONS

- Rectification
- Protection against reverse connection of battery

PACKAGING INFORMATION

● SOD-123P

Unit : inch (mm)



ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Repetitive Peak Reverse Voltage	V_{RM}	40	V
Reverse Voltage (DC)	V_R	40	V
Forward Current (Average) at Ta=75°C	$I_{F(AV)}$	1	A
Non Continuous Forward Surge Current (8.3 ms single half-sine wave)	I_{FSM}	30	A
Junction Temperature	T_J	125	°C
Storage Temperature	T_{stg}	-55 to +150	°C

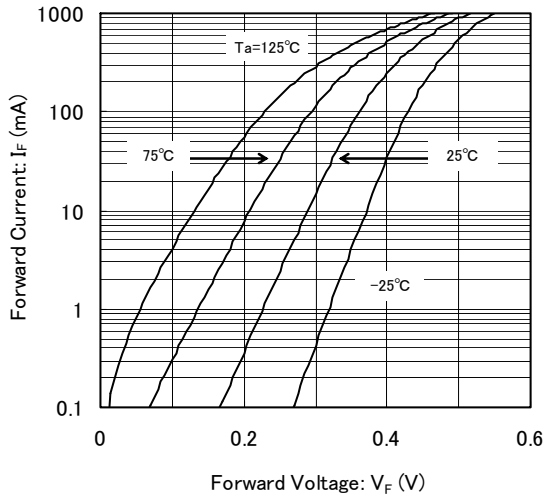
ELECTRICAL CHARACTERISTICS

Ta=25°C

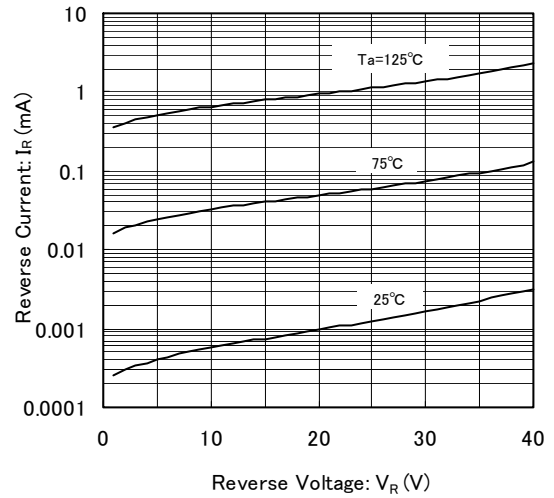
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Forward Voltage	V_F	$I_F=1A$	-	-	0.56	V
Reverse Current	I_R	$V_R=40V$			500	μA
Terminal Capacitance	C_t	$V_R=0V, f=1MHz$	-	-	230	pF

TYPICAL PERFORMANCE CHARACTERISTICS

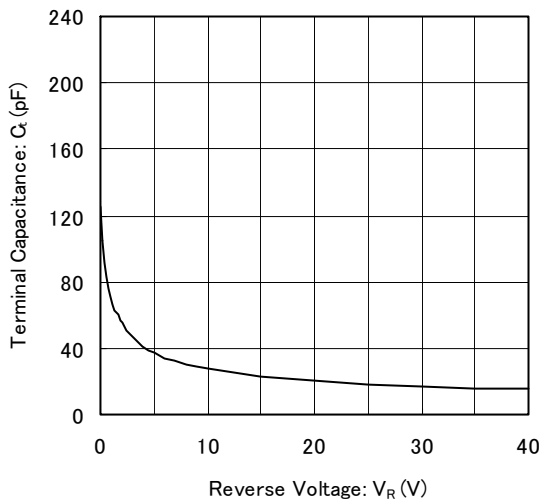
(1) Forward Current vs. Forward Voltage



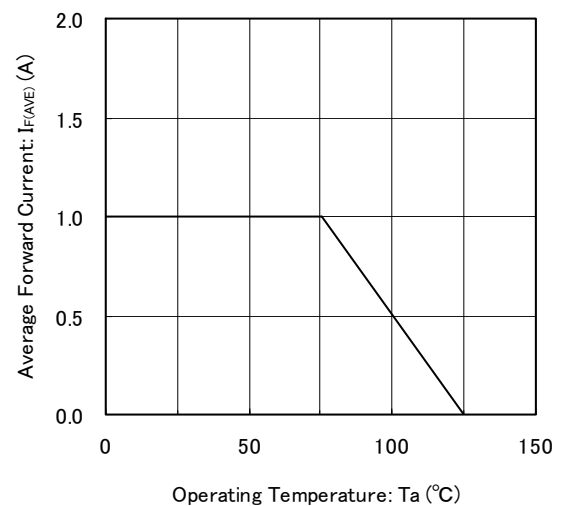
(2) Reverse Current vs. Reverse Voltage



(3) Terminal Capacitance vs. Reverse Voltage



(4) Average Forward Current 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.

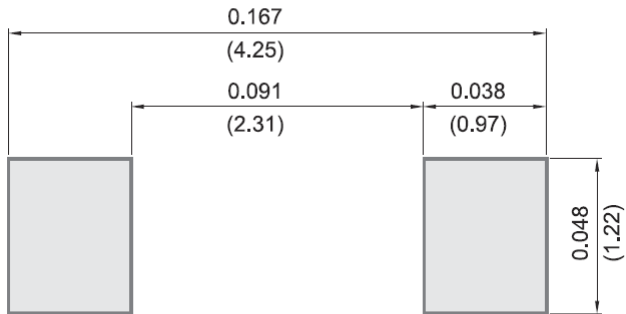
2. Torex places an importance on improving our products and their reliability.

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

■ REFERENCE PATTERN LAYOUT

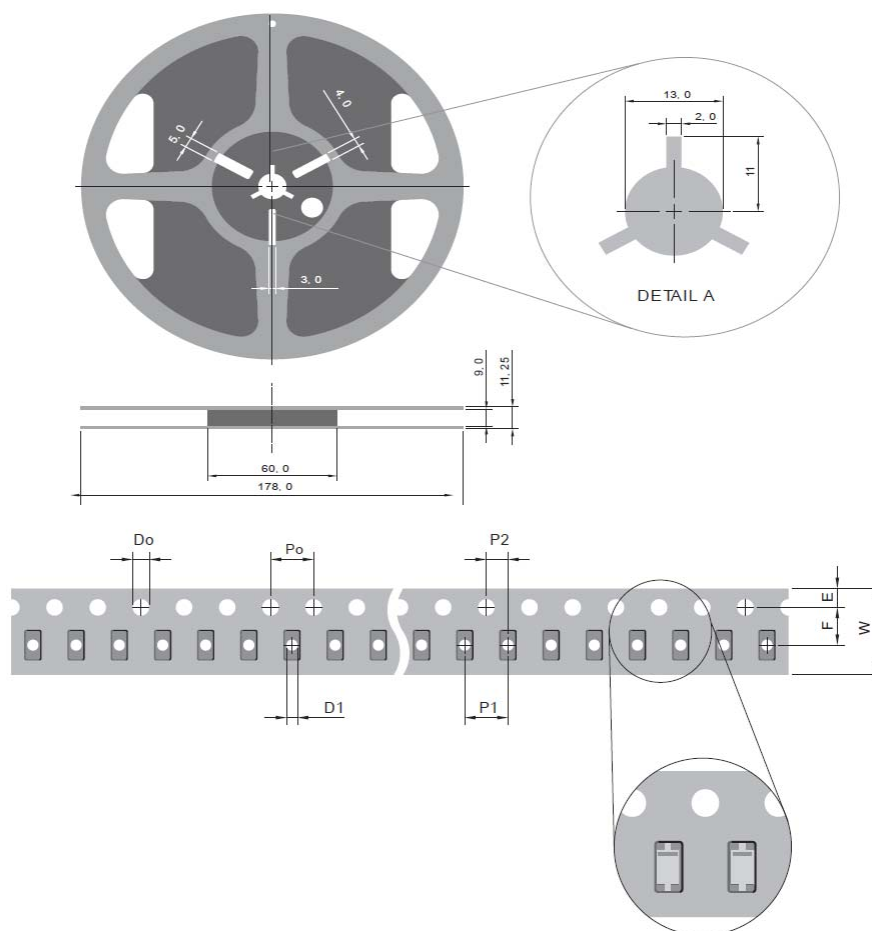
● SOD-123P

Unit : inch (mm)



TAPING SPECIFICATIONS

●SOD-123P



SYMBOL	mm
D_0	1.50 ± 0.10
D_1	1.00 ± 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	$8.00 \begin{matrix} + 0.15 \\ - 0.15 \end{matrix}$

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