

XBS013P11R-G

ETR16024-001

Schottky Barrier Diode, 100mA, 30V Type

FEATURES

Low Forward voltage

Ultra Small Package

Environmentally Friendly : EU RoHS Compliant, Pb Free

APPLICATIONS

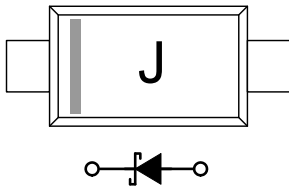
● Low Current Rectification

PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBS013P11R-G *	SOD-923	8,000pcs/Reel

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

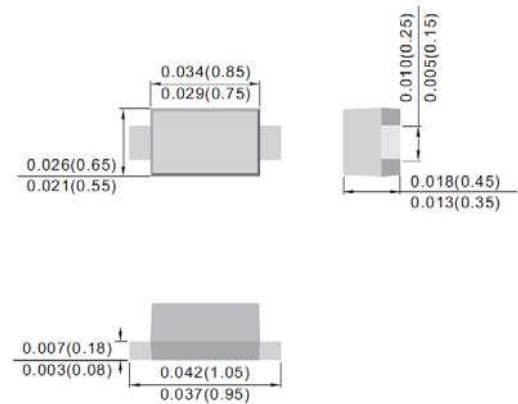
MARKING



PACKAGING INFORMATION

● SOD-923

Unit : inch (mm)



ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Reverse Voltage (DC)	V_R	30	V
Forward Current (Average)	$I_{F(AV)}$	0.1	A
Non Continuous Forward Surge Current (8.3 ms single half-sine wave)	I_{FSM}	1	A
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55 to +125	°C

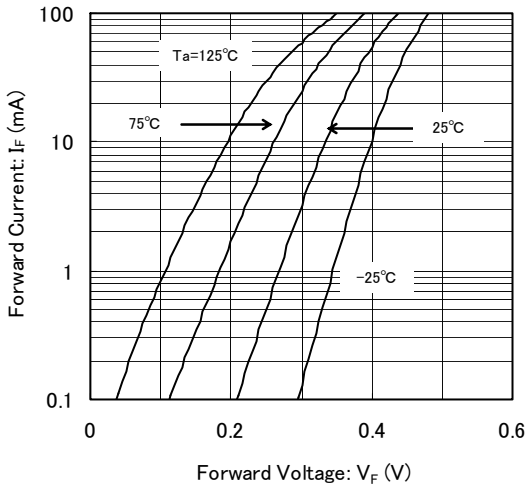
ELECTRICAL CHARACTERISTICS

Ta=25°C

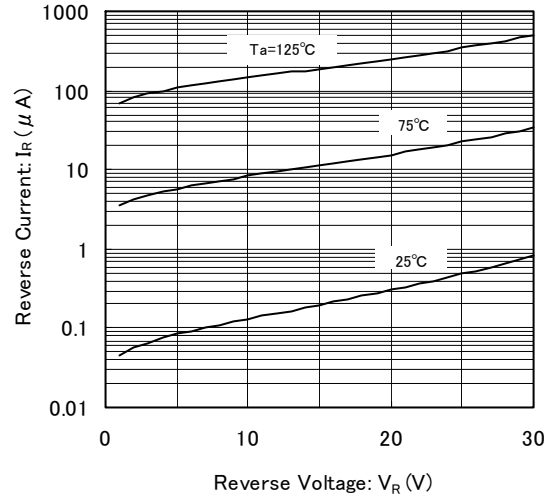
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Forward Voltage	V_F	$I_F=10mA$	-	-	0.35	V
Reverse Current	I_R	$V_R=10V$	-	-	10	μA

TYPICAL PERFORMANCE CHARACTERISTICS

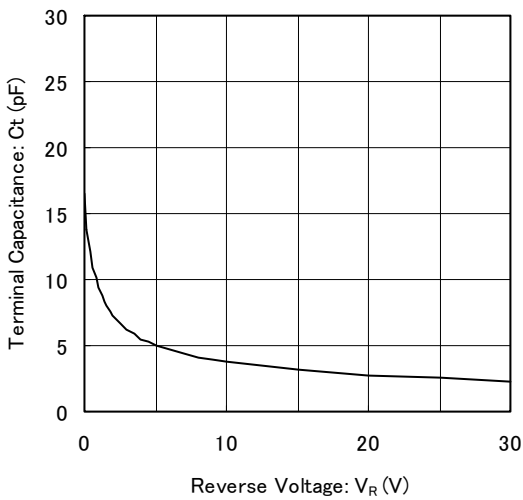
(1) Forward Current vs. Forward Voltage



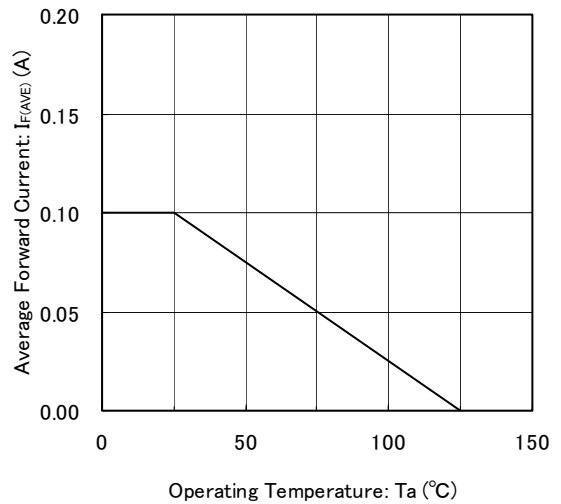
(2) Reverse Current vs. Reverse Voltage



(3) Terminal Capacitance vs. Reverse Voltage



(4) Average Forward Current vs. Operating Temperature



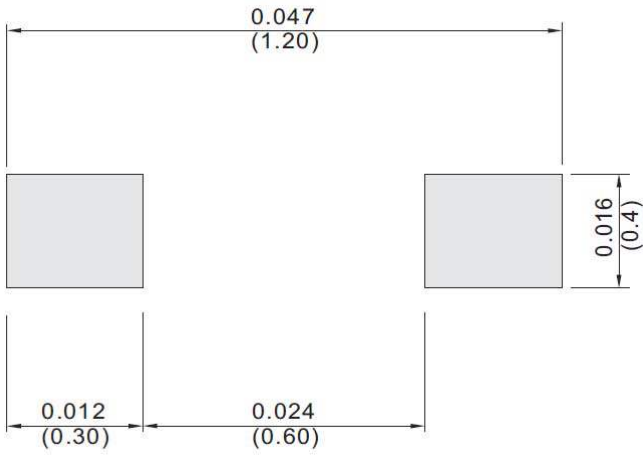
NOTES ON USE

- 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.
- 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-923

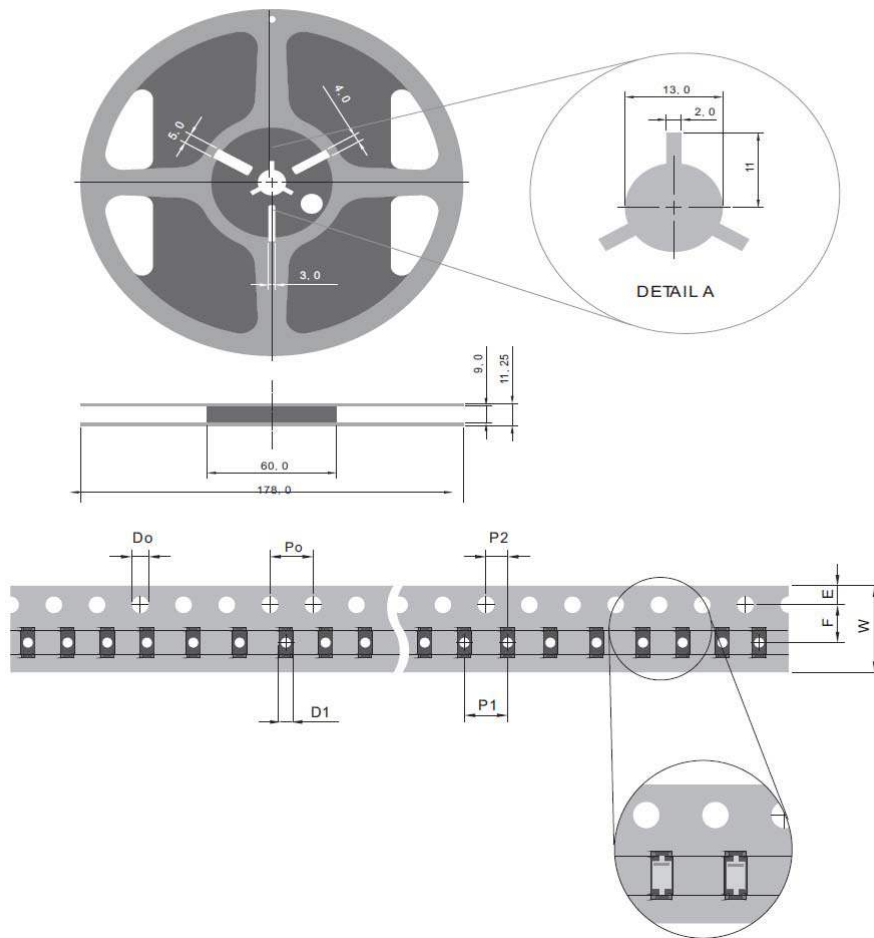
Unit : inch (mm)



XBS013P11R-G

TAPING SPECIFICATIONS

●SOD-923



SYMBOL	mm
D0	1.50 ± 0.10
D1	0.40 ± 0.05
E	1.75 ± 0.10
F	3.50 ± 0.05
P0	4.00 ± 0.10
P1	2.00 ± 0.05
P2	2.00 ± 0.05
W	8.00 +0.3 -0.1

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