

XBS023P11R-G

ETR16025-001

Schottky Barrier Diode, 200mA, 30V Type

FEATURES

Low Forward voltage

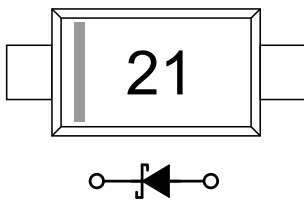
Environmentally Friendly : EU RoHS Compliant, Pb Free

PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBS023P11R-G *	SOD-523P	5,000pcs/Reel

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

MARKING



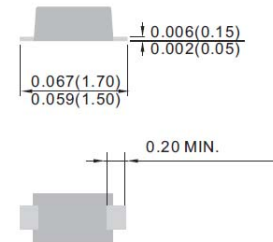
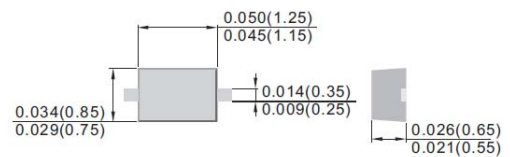
APPLICATIONS

● Low Current Rectification

PACKAGING INFORMATION

● SOD-523P

Unit : inch (mm)



ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Repetitive Peak Reverse Voltage	V_{RM}	30	V
Forward Current (Average)	$I_{F(AV)}$	200	mA
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

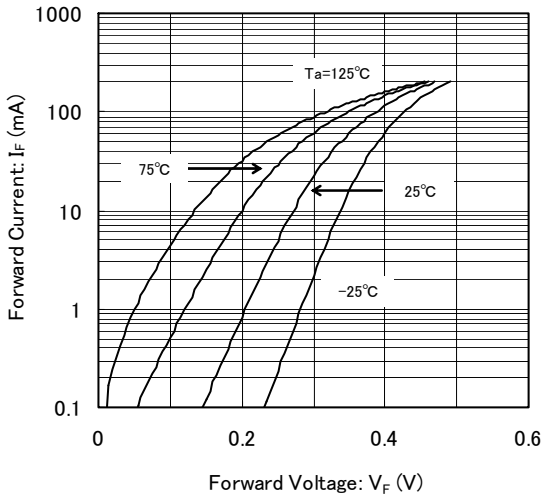
ELECTRICAL CHARACTERISTICS

Ta=25°C

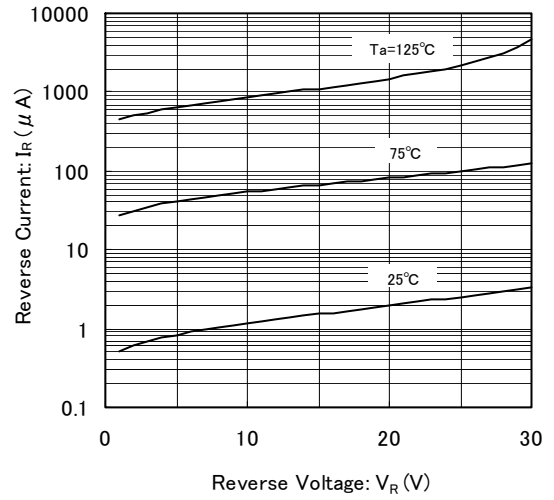
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Forward Voltage	V_{F1}	$I_F=10mA$	-	-	0.35	V
	V_{F2}	$I_F=200mA$	-	-	0.50	V
Reverse Current	I_{R1}	$V_R=10V$	-	-	10	μA
	I_{R2}	$V_R=30V$	-	-	100	μA

TYPICAL PERFORMANCE CHARACTERISTICS

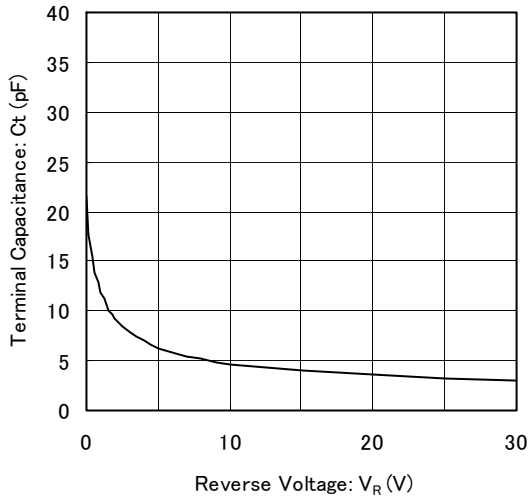
(1) Forward Current vs. Forward Voltage



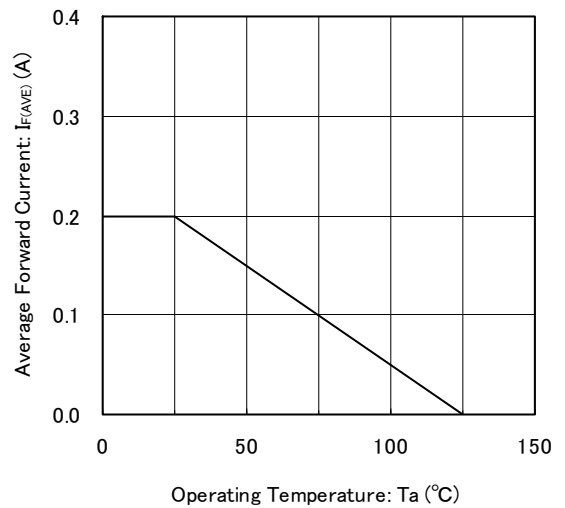
(2) Reverse Current vs. Reverse Voltage



(3) Terminal Capacitance vs. Reverse Voltage



(4) Average Forward Current vs. Operating Temperature



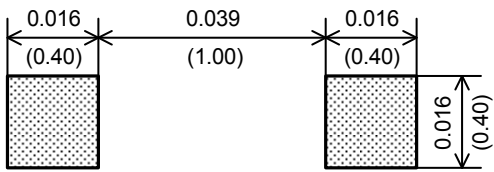
NOTES ON USE

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-523P

Unit : inch (mm)

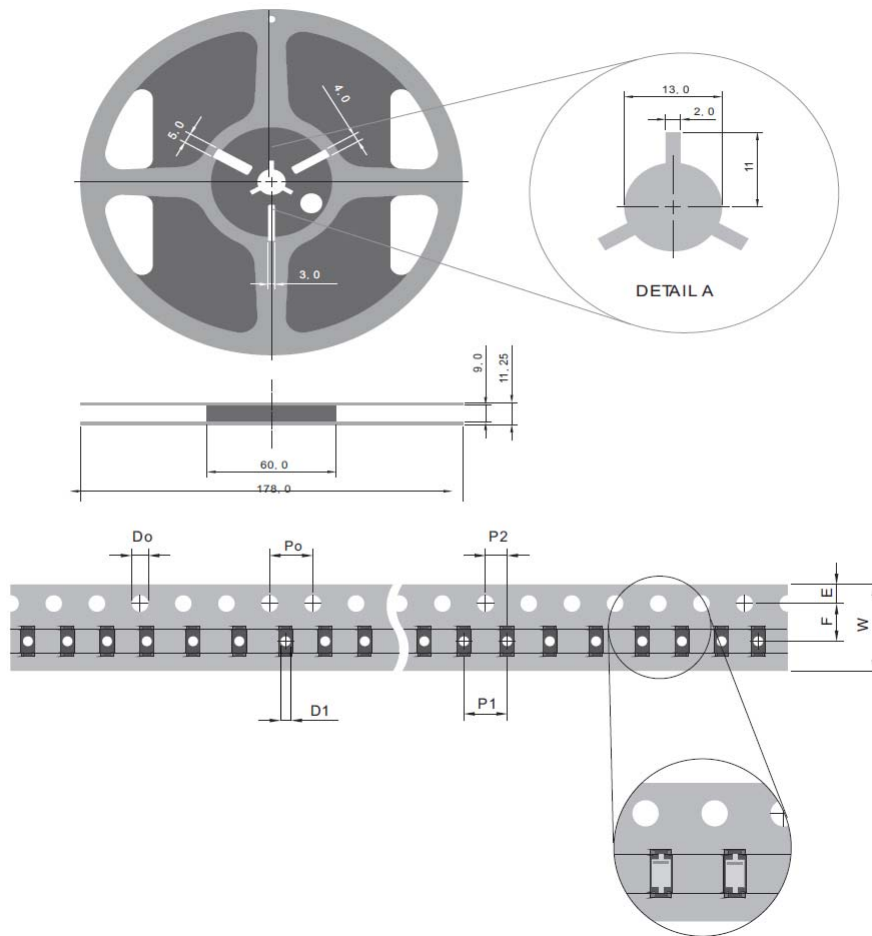


XBS023P11R-G

TAPING SPECIFICATIONS

●SOD-523P

Unit : mm



SYMBOL	mm
D ₀	1.50 ± 0.10
D ₁	0.50 ± 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 + 0.3 - 0.15

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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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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
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- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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