

Schottky Barrier Diode, 200mA, 30V Type

FEATURES

Low Forward voltage

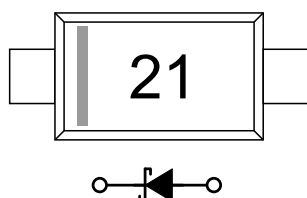
Environmentally Friendly : EU RoHS Compliant, Pb Free

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



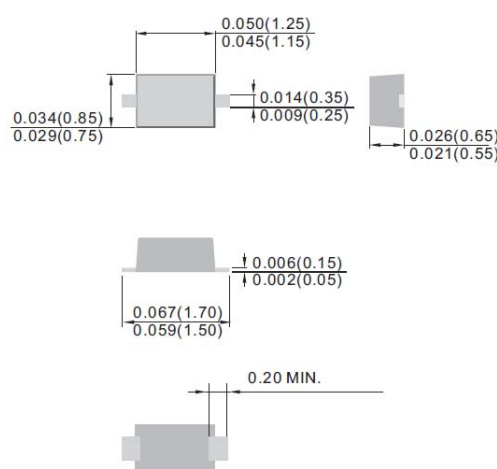
APPLICATIONS

● 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

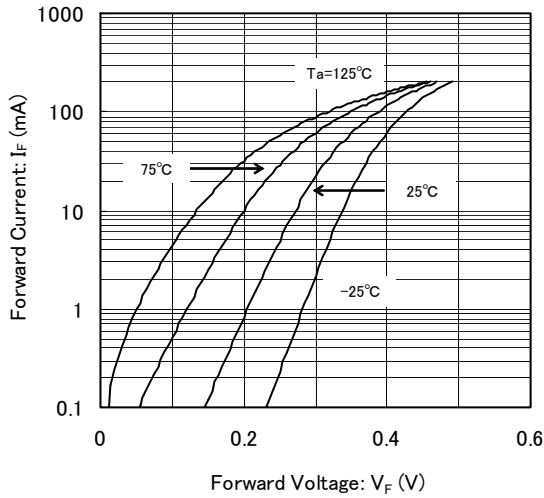
ELECTRICAL CHARACTERISTICS

Ta=25°C

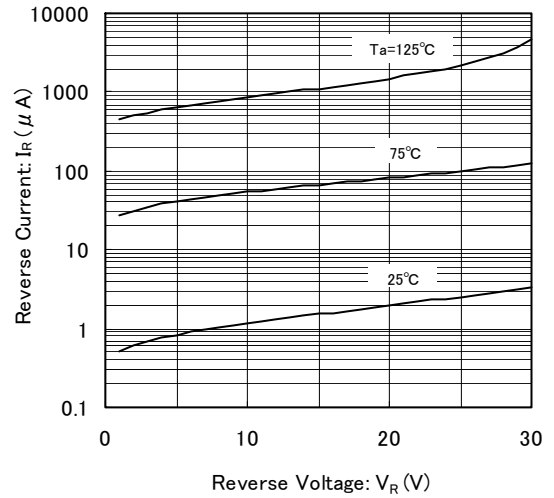
PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNITS
			MIN.	TYP.	MAX.	
Forward Voltage	V_{F1}	$I_F=10mA$	-	-	0.35	V
	V_{F2}	$I_F=200mA$	-	-	0.50	V
Reverse Current	I_{R1}	$V_R=10V$	-	-	10	μA
	I_{R2}	$V_R=30V$	-	-	100	μA

TYPICAL PERFORMANCE CHARACTERISTICS

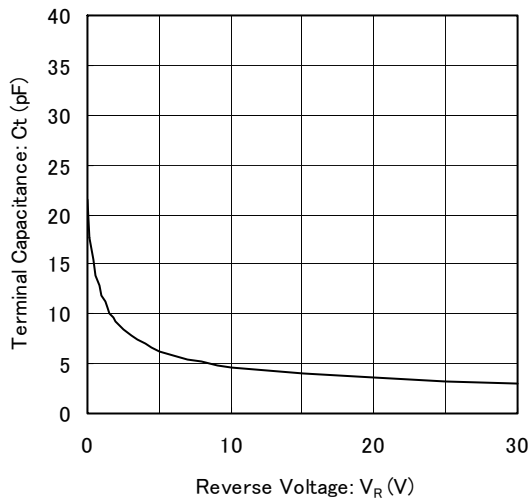
(1) Forward Current vs. Forward Voltage



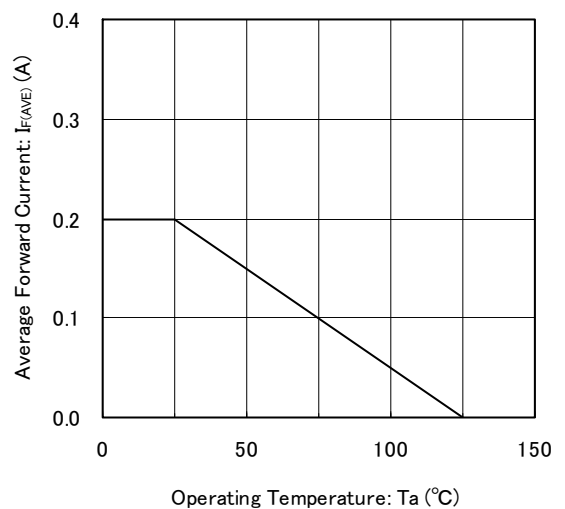
(2) Reverse Current vs. Reverse Voltage



(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.

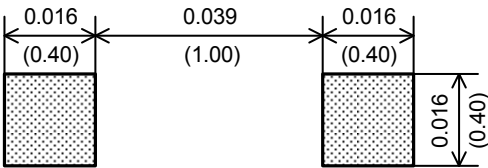
2. Torex places an importance on improving our products and their reliability.

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

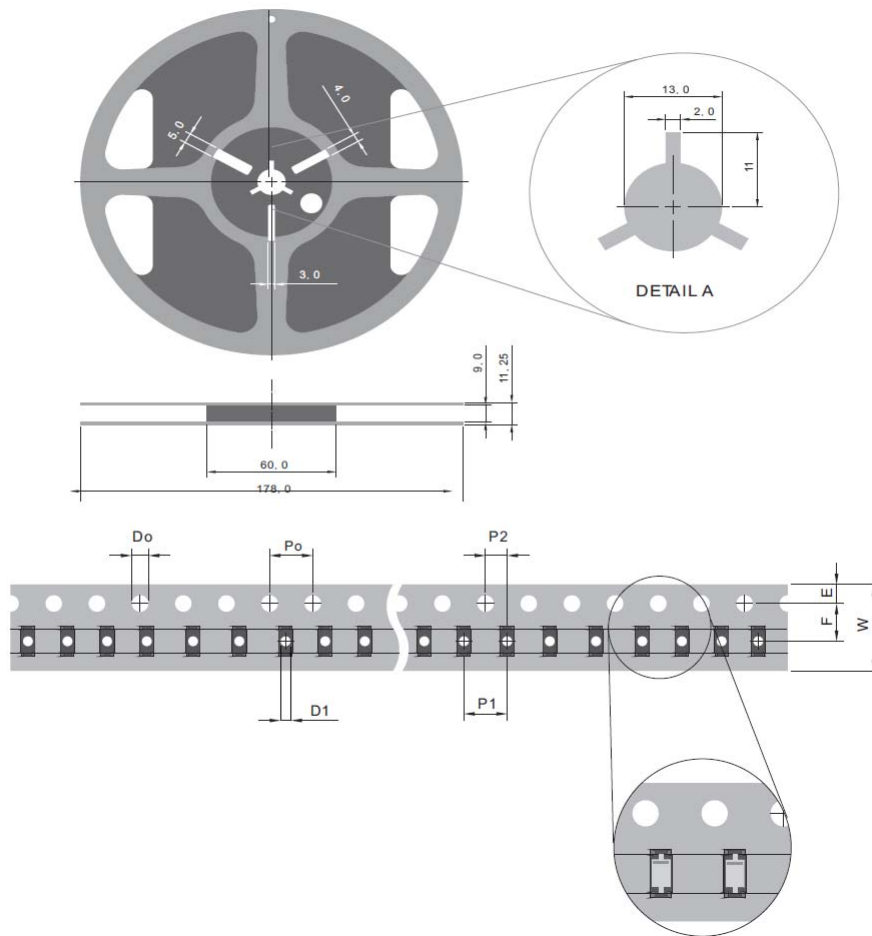
Unit : inch (mm)



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

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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