XBS053P11R-G



ETR16026-001

Schottky Barrier Diode, 500mA, 30V Type

■FEATURES

Low Forward voltage

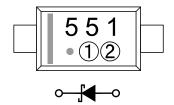
Environmentally Friendly: EU RoHS Compliant, Pb Free

■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBS053P11R-G *	SOD-323P	5,000pcs/Reel

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

■MARKING



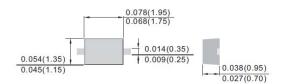
12: Control Number

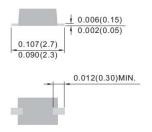
■APPLICATIONS

- Rectification
- Protection against reverse connection of battery

■ PACKAGING INFORMATION

●SOD-323P Unit: inch (mm)





■ ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Repetitive Peak Reverse Voltage	V_{RM}	30	V
Reverse Voltage (DC)	V_R	20	V
Forward Current (Average)	I _{F(AV)}	500	mA
Non Continuous			
Forward Surge Current	I _{FSM}	5	Α
(8.3 ms single half-sine wave)			
Junction Temperature	Tj	125	°C
Storage Temperature	Tstg	-55 to +150	°C

■ ELECTRICAL CHARACTERISTICS

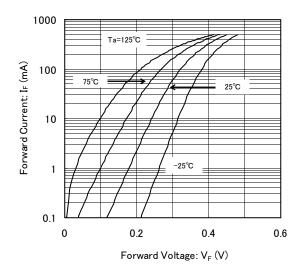
Ta=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			LINUTO
			MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_{F1}	I _F =100mA	-	-	0.36	V
	V_{F2}	I _F =500mA	-	-	0.49	V
Reverse Current	I _R	V _R =20V			100	μΑ
Tarminal Canacitanas	C _{t1}	V _R =0V, f=1MHz	-	-	85	pF
Terminal Capacitance	C_{t2}	V _R =10V, f=1MHz	-	-	20	pF

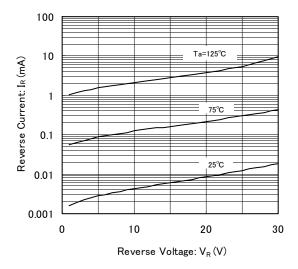
XBS053P11R-G

■ TYPICAL PERFORMANCE CHARACTERISTICS

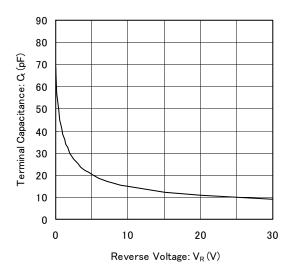
(1) Forward Current vs. Forward Voltage



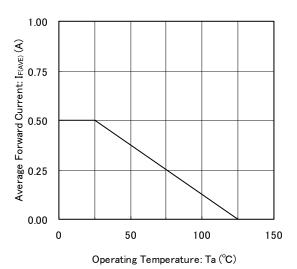
(2) Reverse Current vs. Reverse Voltage



(3) Terminal Capacitance vs. Reverse Voltage



(4) Average Forward Current vs. Operating Temperature



■NOTES ON USE

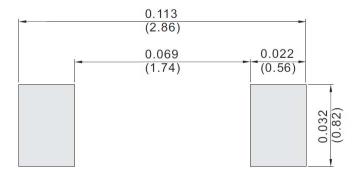
Please use this IC within the absolute maximum ratings.
Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC.

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-323P

Unit: inch (mm)



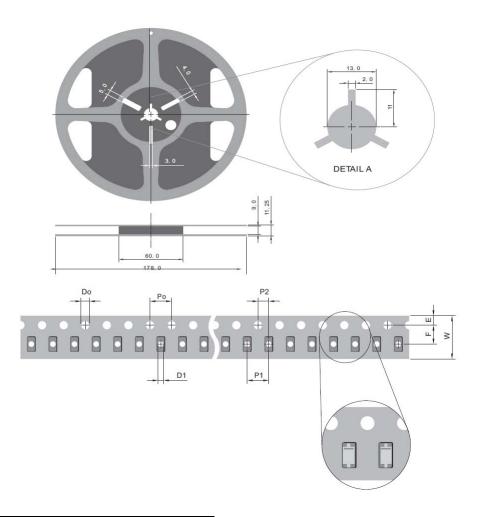
3/5

XBS053P11R-G

■TAPING SPECIFICATIONS

●SOD-323P

Unit : mm



	SYMBOL	
١.	STIVIBUL	mm
	D_0	1.55 ± 0.10
	D1	1.00 ± 0.25
	Е	1.75 ± 0.10
	F	3.50 ± 0.05
	P ₀	4.00 ± 0.10
	P1	4.00 ± 0.10
	P2	2.00 ± 0.05
	W	8.00 + 0.3 - 0.15

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