

- ◆ 500mA 30V Type
- ◆ Low VF, Actual power =410mV @500mA
- ◆ Small Package : SOD-323

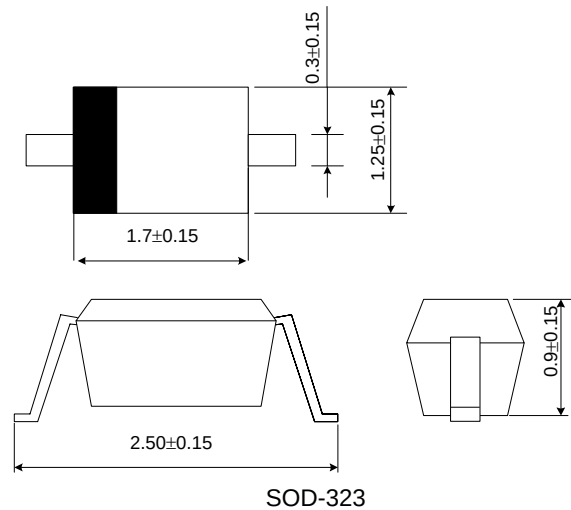
■ Applications

- Rectification of compact DC/DC converter
- Reduction of power losses of mobile phones, mini-disks, notebook PCs
- Surge absorption caused by counter force of compact motors
- Protection against reverse connection of battery

■ General Description

XB0ASB03A1BR series employs 0.5A level of schottky diode in small SOD-323 package. The compact size of this series fits in well with small, high density requirements. By giving the series low VF characteristics, it achieves power and energy saving.

■ Package Dimensions



■ Absolute Maximum Ratings

SYMBOL	PARAMETER	RATINGS	UNITS
VRM	Repetitive Peak Reverse Voltage	30	V
VRM	Reverse Voltage	20	V
Io	Average Rectification Current	0.5	A
IFSM	Forward Surge Current	10	A
Tj	Junction Temperature	125	°C
Tstg	Storage Temperature	-55 ~ +150	°C

■ Electrical Characteristics

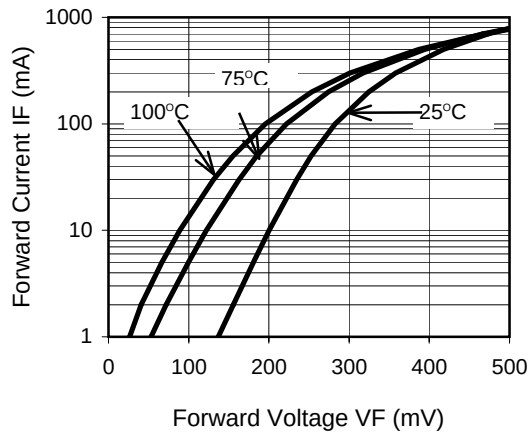
Ta=25°C

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNITS
			MIN	TYP	MAX	
VF1	Forward Voltage	IF=100mA	-	0.28	0.36	V
VF2	Forward Voltage	IF=500mA	-	0.41	0.47	V
IR1	Reverse Current	VR=20V	-	35	100	μA

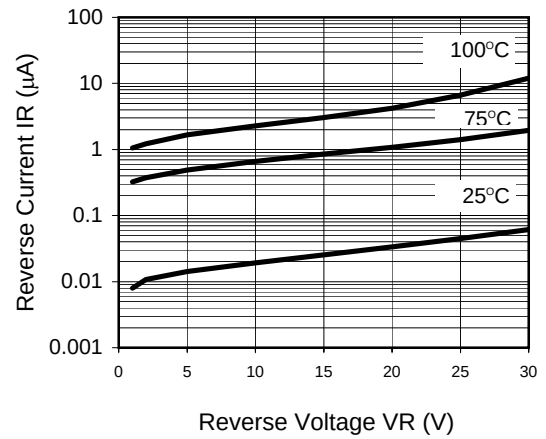
Preliminary

■ Electrical Characteristics

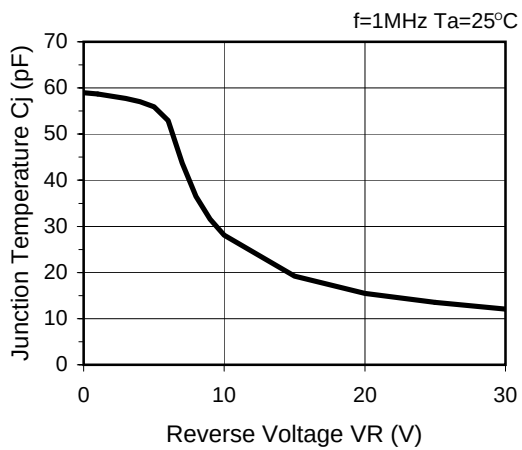
VF - IF



VR - IR



VR - Cj



Derating Curve

