

XBS303V29R-G

ETR16021-002

Schottky Barrier Diode

FEATURES

- Forward Voltage : $V_F=0.39V$ (TYP.)
- Forward Current : $I_{F(AVE)}=3A$
- Repetitive Peak Reverse Voltage : $V_{RM}=30V$

ABSOLUTE MAXIMUM RATINGS

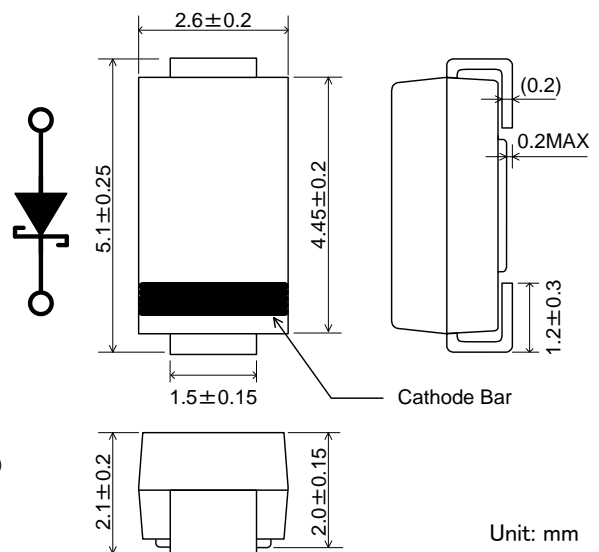
$T_a=25^\circ C$

PARAMETER	SYMBOL	RATINGS	UNITS
Repetitive Peak Voltage	V_{RM}	30	V
Reverse Voltage	V_R	30	V
Forward Current (Average)	$I_{F(AVE)}$	3	A
Peak Forward Surge Current ^(*)	I_{FSM}	70	A
Junction Temperature	T_J	125	$^\circ C$
Storage Temperature Range	T_{stg}	-50~+125	$^\circ C$

APPLICATIONS

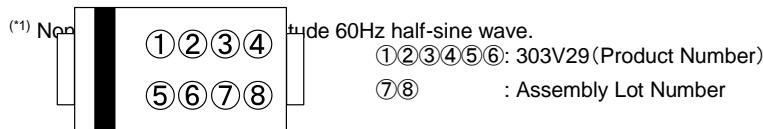
- Rectification
- Protection against reverse connection of battery

PACKAGING INFORMATION



Unit: mm

MARKING RULE



PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBS303V29R-G ^(*)	SMA-XG	2,000/Reel

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

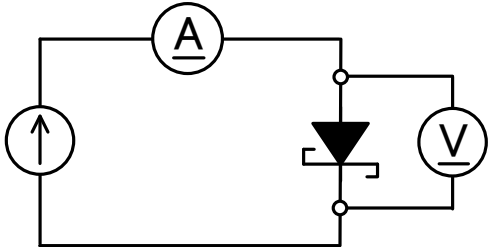
ELECTRICAL CHARACTERISTICS

$T_a=25^\circ C$

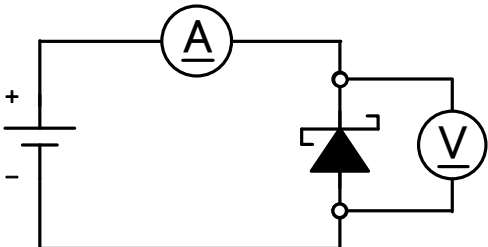
PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Forward Voltage	V_F	$I_F=3A$	-	0.39	0.45	V	①
Reverse Current	I_R	$V_R=30V$	-	0.2	0.6	mA	②

■ TEST CIRCUITS

Circuit ①



Circuit ②

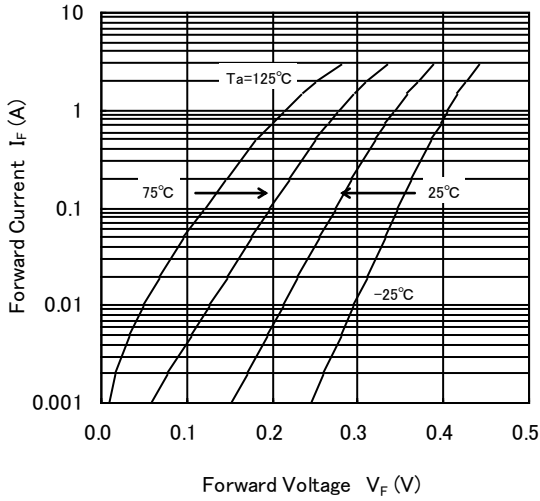


■ NOTES ON USE

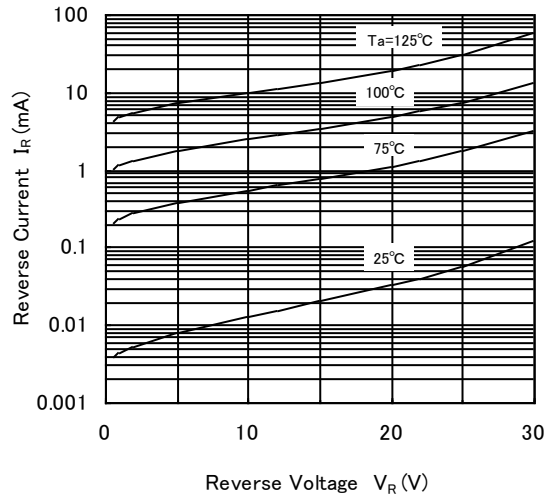
- 1) Please use this IC within the absolute maximum ratings.
- 2) Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC. Adequate "Derating" should be taken into consideration while designing.
- 3) 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.

TYPICAL PERFORMANCE CHARACTERISTICS

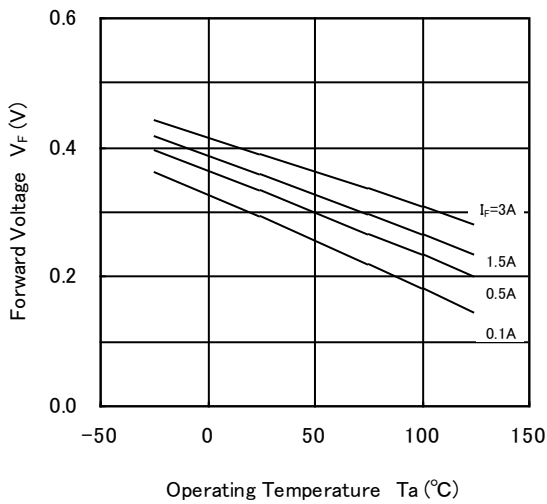
(1) Forward Current vs. Forward Voltage



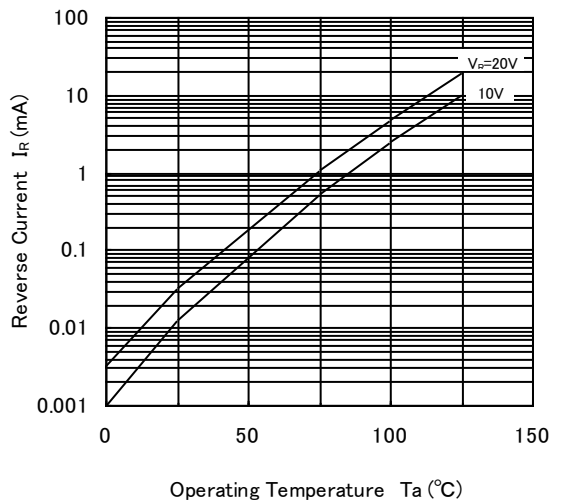
(2) Reverse Current vs. Reverse Voltage



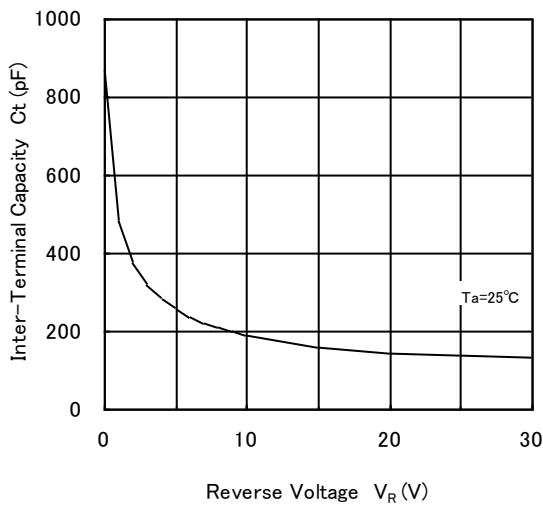
(3) Forward Voltage vs. Operating Temperature



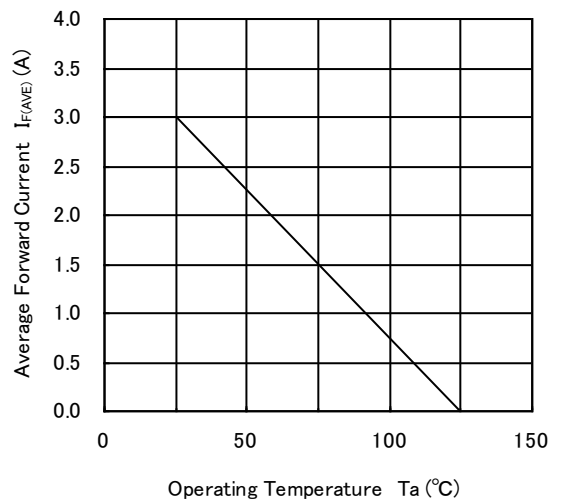
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature



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