XBS303V17R-G

ETR1614-001a

Schottky Barrier Diode, 3A, 30V Type

■FEATURES

Forward Voltage : $V_F=0.355V$ (TYP.)

Forward Current : I_{F(AVE)}=3A

Repetitive Peak Reverse Voltage : V_{RM}=30V

■APPLICATIONS

2.54-2.79

- Rectification
- Protection against reverse connection of battery

■ PACKAGING INFORMATION

■ AB<mark>SOLUTE MAXI</mark>MUM RATINGS

Га=25°С

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	VRM	30	V
Reverse Voltage (DC)	VR	30	V
Forward Current (Average)	IF(AVE)	3	Α
Non Continuous Forward Surge Current*1	IFSM	60	Α
Junction Temperature	Tj 125		°C
Storage Temperature Range	Tstg	-55~+150	°C

^{*1:} Non continuous high amplitude 60Hz half-sine wave.

■MARKING RULE

■PRODUCT NAME



123456: 303V17(Product Number) 78 : Assembly Lot Number

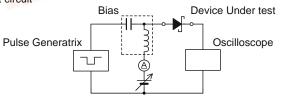
PRODUCT NAME DEVICE ORIENTATION XBS303V17R-G SMA (Halogen & Antimony free) XBS303V17R SMA

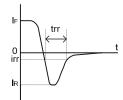
■ ELECTRICAL CHARACTERISTICS

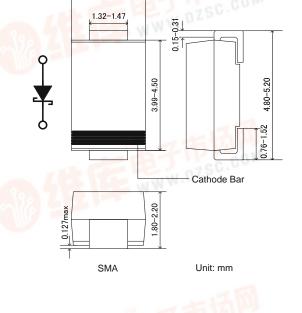
Ta=25°C

PARAMETER SYMBOL	TEST CONDITIONS	LIMITS			UNIT	
	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Forward Voltage	VF1	I _F =0.5A		0.265	0.34	V
	VF2	I _F =1A	- WW	0.295	0.36	V
	VF3	I _F =3A	-	0.355	0.39	V
Reverse Current	lr	V _R =30V	-	0.35	3	mA
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	385	-	pF
Reverse Recovery Time*2	trr	I _F =I _R =10mA , irr=1mA	-	90	-	ns

^{*2 :} trr measurement circuit







^{*} When the IC is operated continuously under high load conditions such as high temperature, high current and high voltage, it may have the case that reliability reduces drastically even if under the absolute maximum ratings. Adequate "Derating" should be taken into consideration while designing.

^{*} The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

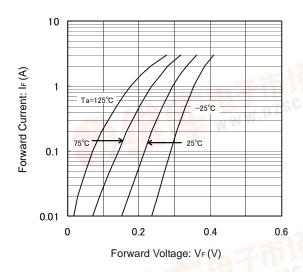
^{*} The device orientation is fixed in its embossed tape pocket.

XBS303V17R-G

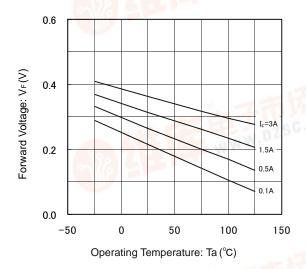
豆的VD2202A1116—6\分阶员

■TYPICAL PERFORMANCE CHARACTERISTICS

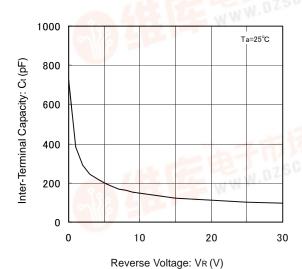
(1) Forward Current vs. Forward Voltage



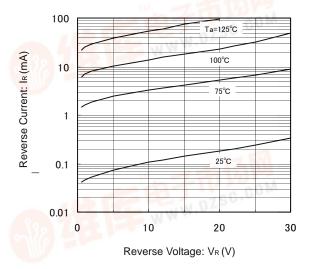
(3) Forward Voltage vs. Operating Temperature



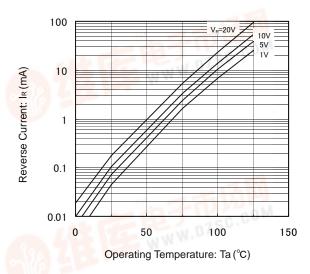
(5) Inter-Terminal Capacity vs. Reverse Voltage



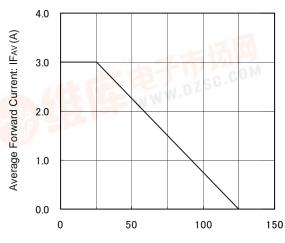
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



Operating Temperature: Ta (°C)

- 1. The products 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.
- 2. We assume no responsibility for any infringement of patents, patent rights, or other rights arising from the use of any information and circuitry in this datasheet.
- 3. Please ensure suitable shipping controls (including fail-safe designs and aging protection) are in force for equipment employing products listed in this datasheet.
- 4. The products in this datasheet are not developed, designed, or approved for use with such equipment whose failure of malfunction can be reasonably expected to directly endanger the life of, or cause significant injury to, the user.
 - (e.g. Atomic energy; aerospace; transport; combustion and associated safety equipment thereof.)
- Please use the products listed in this datasheet within the specified ranges.
 Should you wish to use the products under conditions exceeding the specifications, please consult us or our representatives.
- 6. We assume no responsibility for damage or loss due to abnormal use.
- 7. All rights reserved. No part of this datasheet may be copied or reproduced without the prior permission of TOREX SEMICONDUCTOR LTD.

TOREX SEMICONDUCTOR LTD.



