XBS303V29R-G

■FEATURES

Forward Voltage	: V _F
Forward Current	: I _{F(/}
Repetitive Peak Reverse Voltage	: V _R

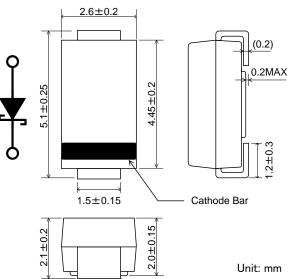
- : V_F=0.39V (TYP.)
- : I_{F(AVE)}=3A
- : V_{RM}=30V

■ APPLICATIONS

- Rectification
- Protection against reverse connection of battery

ETR16021-001

■PACKAGING INFORMATION



■ABSOLUTE MAXIMUM RATINGS

			1a=25 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	А
Peak Forward Surge Current (*1)	I _{FSM}	70	А
Junction Temperature	Tj	125	°C
Storage Temperature Range	Tstg	-50~+125	°C
(#4)			

(*1) Non continuous high amplitude 60Hz half-sine wave.

■MARKING RULE



 ①②③④⑤⑥: 303V29(Product Number)

 ⑦⑧
 : Assembly Lot Number

■PRODUCT NAME

PRODUCT NAME	PACKAGE	ORDER UNIT
XBS303V29R-G ^(*1)	SMA-XG	2,000/Reel

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

■ELECTRICAL CHARACTERISTICS

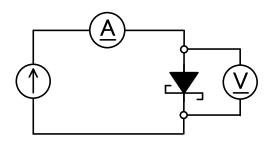
PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Forward Voltage	VF	I _F =3A	-	0.39	0.45	V	1
Reverse Current	I _R	V _R =30V	-	0.2	0.6	mA	2

Ta=25°C

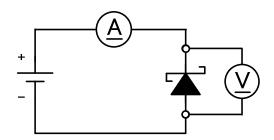
XBS303V29R-G

■TEST CIRCUITS

 $\operatorname{Circuit} (1)$



Circuit 2

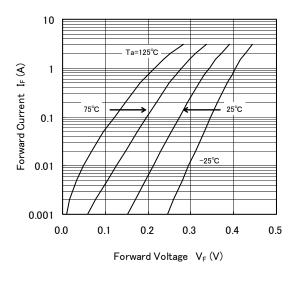


■NOTES ON USE

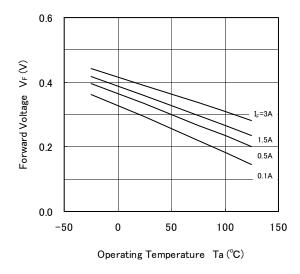
- 1) Please use this IC within the absolute maximum ratings.
- 2) Even within the ratings, in case of high load use continuously such as high temperature, high voltage, high current and thermal stress may cause reliability degradation of the IC. Adequate "Derating" should be taken into consideration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

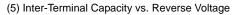
■TYPICAL PERFORMANCE CHARACTERISTICS

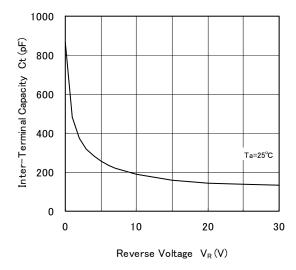
(1) Forward Current vs. Forward Voltage

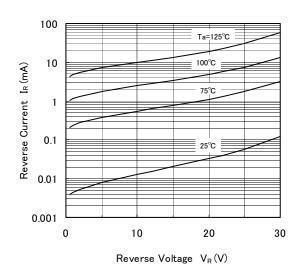


(3) Forward Voltage vs. Operating Temperature



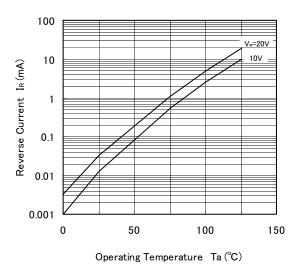






(2) Reverse Current vs. Reverse Voltage

(4) Reverse Current vs. Operating Temperature

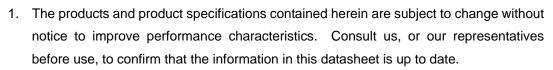


4.0 (*) 3.5 3.0 2.5 2.0 1.5 0.5 0.0 0 50 100 150 Operating Temperature Ta (°C)

(6) Average Forward Current vs. Operating Temperature

TOIREX 3/4

XBS303V29R-G



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 (e.g. Atomic energy; aerospace; transport; combustion and associated safety equipment thereof.)
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