■FEATURES

Forward Voltage	: V _F =0.35V (TYP.)			
Forward Current	: I _{F(AVE)} =2A			
Repetitive Peak Reverse Voltage	: V _{RM} =30V			

■ABSOLUTE MAXIMUM RATINGS

Ta=25°						
SYMBOL	RATINGS	UNIT				
se Voltage VRM 30		V				
Vr	30	V				
IF(AVE)	2	А				
Irou	50	А				
IFSM	50	A				
Tj	125					
Tstg	-55~+150	°C				
	VRM VR IF(AVE) IFSM Tj	VRM 30 VR 30 IF(AVE) 2 IFSM 50 Tj 125				

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

* 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.

MARKING RULE



123456: 203V17 (Product Number) 78 : Assembly Lot Number

PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION	
XBS203V17R-G	SMA (Halogen & Antimony free)	
XBS203V17R	SMA	

* 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.

■ ELECTRICAL CHARACTERISTICS

PARAMETER S	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
	STIVIDUL		MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF1	I _F =0.5A	-	0.28	0.365	V
	VF2	I _F =1A	-	0.305	0.375	V
	VF3	I _F =2A	-	0.35	0.39	V
Reverse Current	lr	V _R =30V	-	0.35	3	mA
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	280	-	pF
Reverse Recovery Time ^{*2}	trr	$I_F = I_R = 10 \text{mA}$, irr=1mA,	-	70	-	ns

IF

0

ir:

trr

*2 : trr measurement circuit

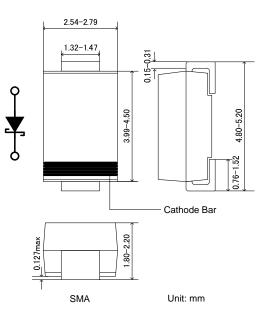
Pulse Generatrix

APPLICATIONS Rectification

Protection against reverse connection of battery

ETR1611-001a

■ PACKAGING INFORMATION

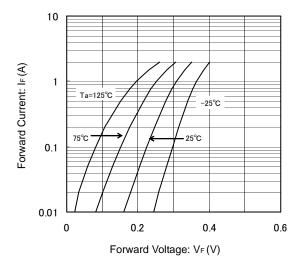


Ta=25°C

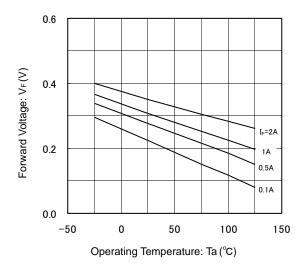
■TYPICAL PERFORMANCE CHARACTERISTICS

(1) Forward Current vs. Forward Voltage

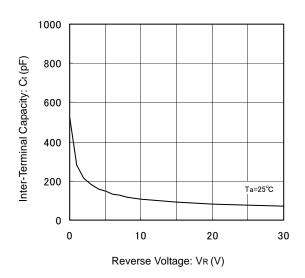
(2) Reverse Current vs. Reverse Voltage

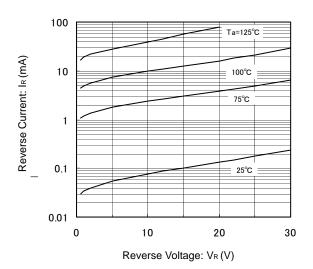


(3) Forward Voltage vs. Operating Temperature

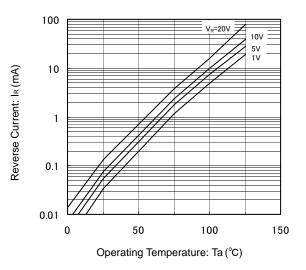


(5) Inter-Terminal Capacity vs. Reverse Voltage

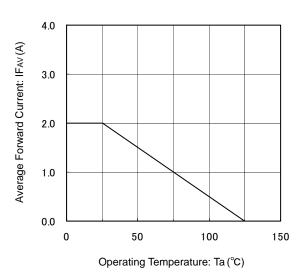




(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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