XBS204S17R-G



Schottky Barrier Diode, 2A, 40V Type

■FEATURES

Forward Voltage : V_F=0.485V (TYP.)

Forward Current : $I_{F(AVE)}=2A$ Repetitive Peak Reverse Voltage : $V_{RM}=40V$

■APPLICATIONS

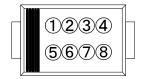
- Rectification
- Protection against reverse connection of battery

■ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Reverse Voltage	VRM	40	V	
Reverse Voltage (DC)		40	V	
Forward Current (Average)	IF(AVE) 2		Α	
Non Continuous	IFSM	50	Α	
Forward Surge Current ^{*1}	IFSM	50	A	
Junction Temperature	Tj	125	ပ္	
Storage Temperature Range	Tstg	-55 ~ +150	လွ	

■MARKING RULE



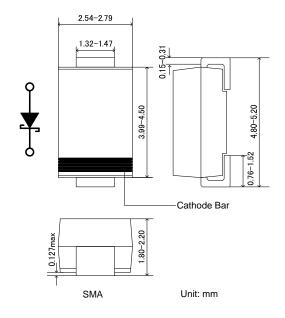
①23456: 204S17(Product Number)

78 : Assembly Lot Number

■PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION		
XBS204S17R-G	SMA (Halogen & Antimony free)		
XBS204S17R	SMA		

■ PACKAGING INFORMATION

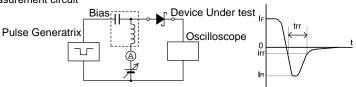


■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER SYMBOL	CVMDOL	TEST CONDITIONS	LIMITS			UNIT
	STIVIBUL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Forward Voltage VF1 VF2	VF1	I _F =200 μ A	=	0.15	=	V
	VF2	I _F =2A	i	0.485	0.54	V
Reverse Current IR1	l _{R1}	V _R =20V	i	2.5	1	μΑ
	lR2	V _R =40V		6	200	μΑ
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	180	-	pF
Reverse Recovery Time*2	trr	I _F =I _R =10mA , irr=1mA	-	51	-	ns

*2 : trr measurement circuit

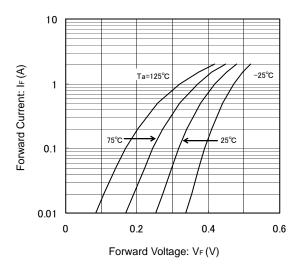


^{*} The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

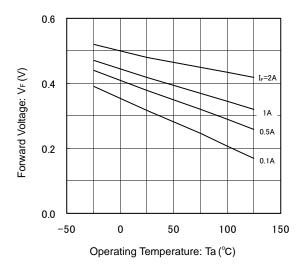
^{*} The device orientation is fixed in its embossed tape pocket.

■TYPICAL PERFORMANCE CHARACTERISTICS

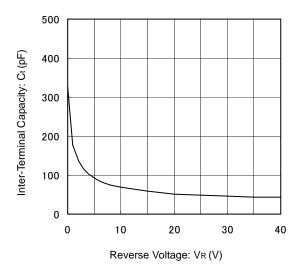
(1) Forward Current vs. Forward Voltage



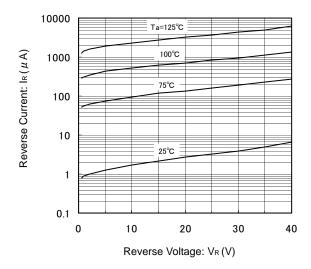
(3) Forward Voltage vs. Operating Temperature



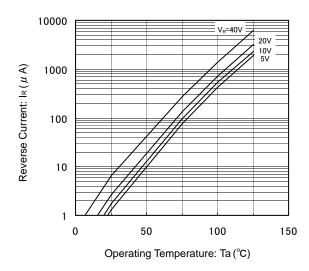
(5) Inter-Terminal Capacity vs. Reverse Voltage



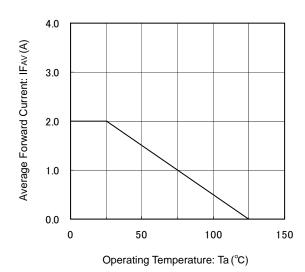
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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