XBS206S17R-G is Discontinued. XBS206S17R-G

Schottky Barrier Diode, 2A, 60V Type

■FEATURES

Forward Voltage	: V _F =0.615V (TYP.)			
Forward Current	: I _{F(AVE)} =2A			
Repetitive Peak Reverse Voltage	: V _{RM} =60V			

■ABSOLUTE MAXIMUM RATINGS

Ia-20							
PARAMETER	SYMBOL	RATINGS	UNIT				
Repetitive Peak Reverse Voltage	Vrm	Vrm 60					
Reverse Voltage (DC)	VR	60	V				
Forward Current (Average)	IF(AVE)	2	А				
Non Continuous	IFSM	45	А				
Forward Surge Current ^{*1}	IFSM	45	A				
Junction Temperature	Tj	125	°C				
Storage Temperature Range	Tstg	-55~+150	°C				

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

MARKING RULE

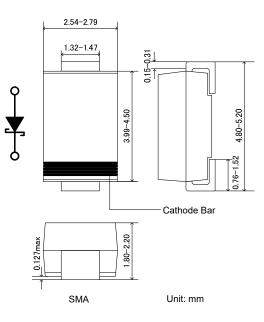


①②③④⑤⑥: 206S17(Product Number)
 ⑦⑧ : Assembly Lot Number

■ APPLICATIONS

- Rectification
- Protection against reverse connection of battery

■PACKAGING INFORMATION



■PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION	
XBS206S17R-G	SMA (Halogen & Antimony free)	
XBS206S17R	SMA	

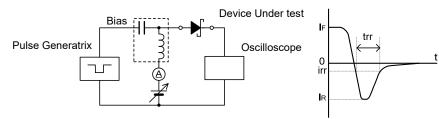
* The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

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

■ELECTRICAL CHARACTERISTICS

PARAMETER			LIMITS			
	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF1	I _F =200 μ A	-	0.15	-	V
	VF2	I _F =2A	-	0.615	0.665	V
Reverse Current	IR1	V _R =30V	-	2.5	-	μA
	IR2	V _R =60V	-	10	300	μA
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	120	-	pF
Reverse Recovery Time ^{*2}	trr	I _F =I _R =10mA , irr=1mA	-	35	-	ns

*2 : trr measurement circuit



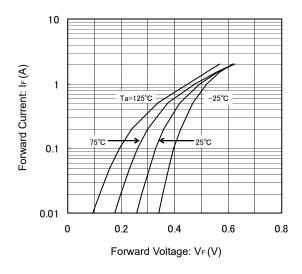
Ta=25°C

XBS206S17R-G

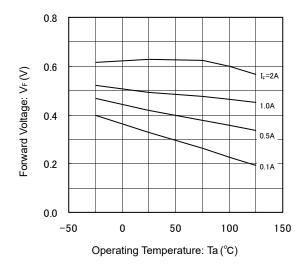
■TYPICAL PERFORMANCE CHARACTERISTICS

(1) Forward Current vs. Forward Voltage

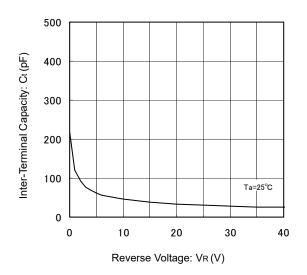
(2) Reverse Current vs. Reverse Voltage

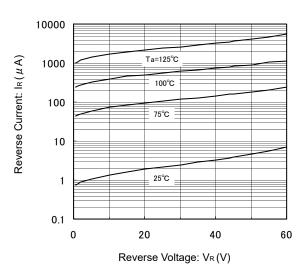


(3) Forward Voltage vs. Operating Temperature

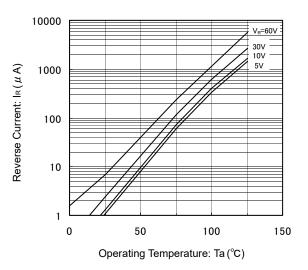


(5) Inter-Terminal Capacity vs. Reverse Voltage

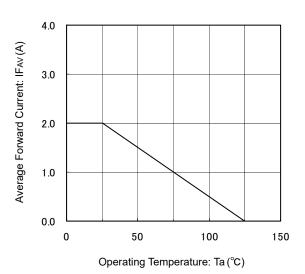




(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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