imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Schottky Barrier Diode, 3A, 60V Type

■FEATURES

Forward Voltage	: V _F =0.59V (TYP.)			
Forward Current	: I _{F(AVE)} =3A			
Papatitiva Baak Bayaraa Valtaga	. 1/ 601/			

Repetitive Peak Reverse Voltage : V_{RM}=60V

■ABSOLUTE MAXIMUM RATINGS

Ta=25							
PARAMETER	SYMBOL	RATINGS	UNIT				
Repetitive Peak Reverse Voltage	Voltage VRM 60						
Reverse Voltage (DC)	VR	60	V				
Forward Current (Average)	IF(AVE)	3	А				
Non Continuous	IFSM	50	٨				
Forward Surge Current ^{*1}	IFSM	50	A				
Junction Temperature	Tj	125	°C				
Storage Temperature Range	Tstg	-55~+150	°C				

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

MARKING RULE



 ①23456:306S17(Product Number)

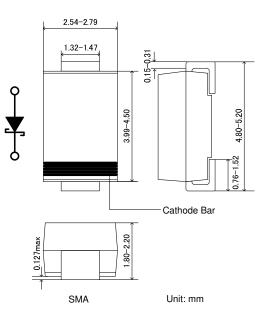
 ⑦8
 : Assembly Lot Number

■ APPLICATIONS

- Rectification
- Protection against reverse connection of battery

ETR1616-002a

■PACKAGING INFORMATION



t

PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION		
XBS306S17 R-G	SMA (Halogen & Antimony free)		
XBS306S17 R	SMA		

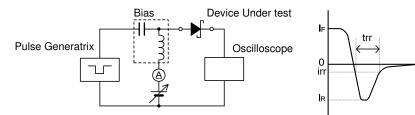
* The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

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

■ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
			MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF1	I _F =200 μ A	-	0.145	-	V
	VF2	I _F =3A	-	0.59	0.66	V
Reverse Current	IR1	V _R =30V	-	3	-	μA
	IR2	V _R =60V	-	9	300	μA
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	195	-	pF
Reverse Recovery Time ^{*2}	trr	I _F =I _R =10mA , irr=1mA	-	55	-	ns

*2 : trr measurement circuit

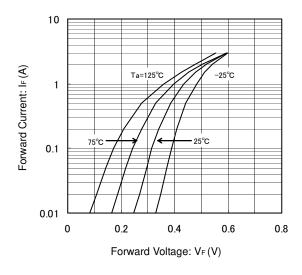


Ta=25°C

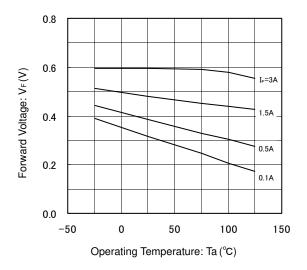
■TYPICAL PERFORMANCE CHARACTERISTICS

(1) Forward Current vs. Forward Voltage

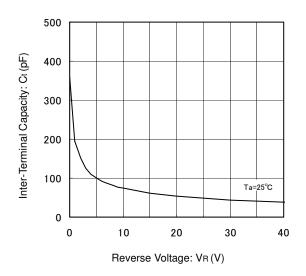
(2) Reverse Current vs. Reverse Voltage

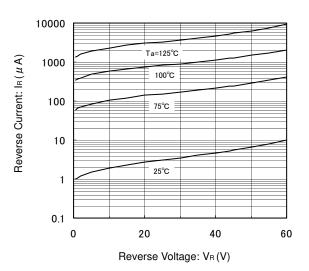


(3) Forward Voltage vs. Operating Temperature

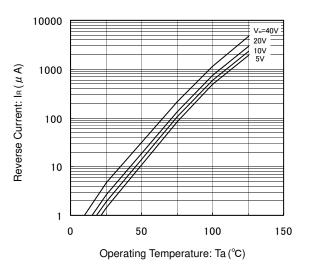


(5) Inter-Terminal Capacity vs. Reverse Voltage

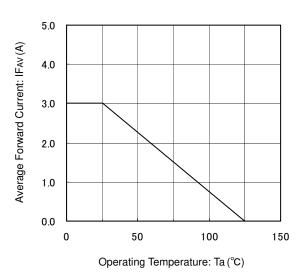




(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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