

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!



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XBS104S14R-G



ETR1609-003

Schottky Barrier Diode, 1A, 40V, SOD-123A Package

■FEATURES

Forward Voltage $: V_F = 0.49V (TYP.)$

Forward Current : I_{F(AV)}=1A Repetitive Peak Reverse Voltage : V_{RM}=40V

■APPLICATIONS

- Rectification
- Protection against reverse connection of battery

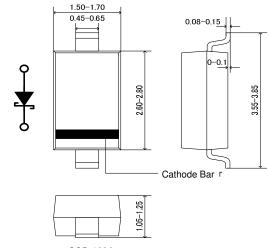
■ ABSOLUTE MAXIMUM RATINGS

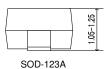
Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Reverse Voltage	VRM	40	V	
Reverse Voltage (DC)	VR	40	V	
Forward Current (Average)	lF(AV)	1	Α	
Non Continuous	IFSM	10	^	
Forward Surge Current *1	IFSM	10	Α	
Junction Temperature	Tj	125	°C	
Storage Temperature Range	Tstg	-55 ~ +150	°C	

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

■ PACKAGING INFORMATION





Unit: mm

■MARKING RULE



- ①: 1 (Product Number)
- 2: Assembly Lot Number

■PRODUCT NAME

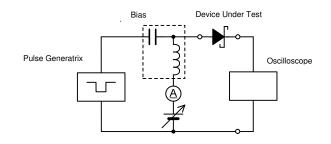
PRODUCT NAME	DESCRIPTION	
XBS104S14R	SOD-123A	
XBS104S14R-G	SOD-123A (Halogen & Antimony free)	

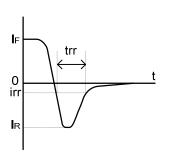
■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER SYMBO	CVMPOL	TEST CONDITIONS	LIMITS			UNIT
	STIVIBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Forward Voltage VF1 I _F =100mA		$I_F=100mA$	-	0.34	-	V
VF	VF2	I _F =1A	-	0.49	0.54	V
Reverse Current	lr	V _R =40V	-	4	200	μΑ
Inter-Terminal Capacity	Ct	$V_R=10V$,, $f=1MHz$	-	35	-	pF
Reverse Recovery Time *2	trr	$I_F = I_R = 10 \text{mA}$, irr=1 mA , RL=100 Ω	-	25	-	ns

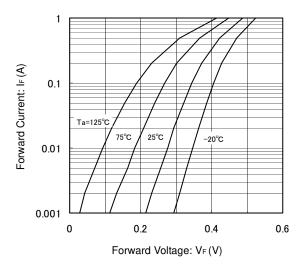
^{*2 :} trr measurement circuit



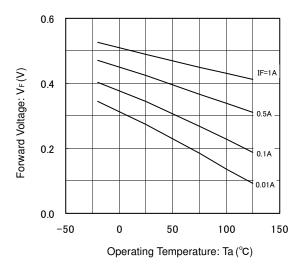


■TYPICAL PERFORMANCE CHARACTERISTICS

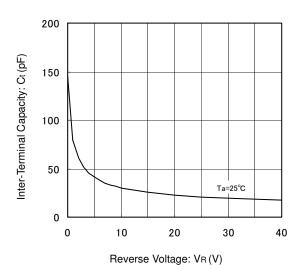
(1) Forward Current vs. Forward Voltage



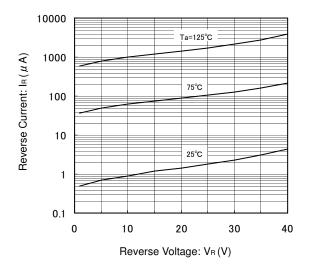
(3) Forward Voltage vs. Operating Temperature



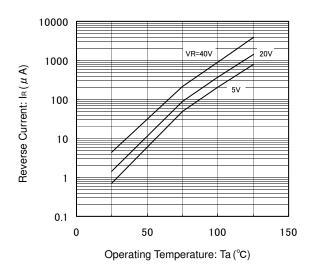
(5) Inter-Terminal Capacity vs. Reverse Voltage



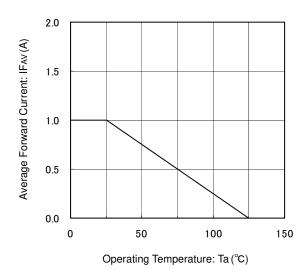
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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