

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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XBS024S15R-G



ETR1605-003

Schottky Barrier Diode, 200mA, 40V Type

■FEATURES

Forward Voltage : V_F=0.53V (TYP.)

Forward Current : I_{F(AV)}=200mA Repetitive Peak Reverse Voltage: V_{RM}=40V

Environmentally Friendly : EU RoHS Compliant, Pb Free

■APPLICATIONS

●Low Current Rectification

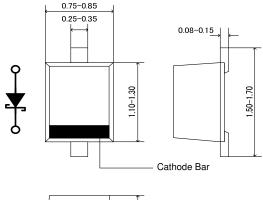
■ ABSOLUTE MAXIMUM RATINGS

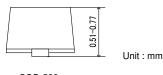
T2-25°C			
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PARMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Voltage	VRM	40	V	
Reverse Voltage (DC)	VR	40	٧	
Forward Current (Average)	lF(AV)	200	mA	
Non Continuous	Irou	-1	А	
Forward Surge Current*1	IFSM	ı		
Junction Temperature	Tj	125	°C	
Storage Temperature Range	Tstg	-55 ~ +150	°C	

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

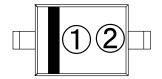
■ PACKAGING INFORMATION





SOD-523

■MARKING RULE



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

■PRODUCT NAME

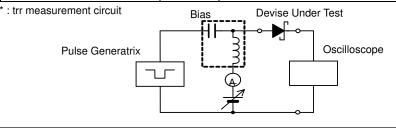
PRODUCT NAME	DEVICE ORIENTATION		
XBS024S15R	SOD-523		
XBS024S15R-G	SOD-523(Halogen & Antimony free)		

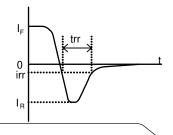
^{*} The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
			MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF1	I _F =10mA	-	0.33	-	V
	VF2	I _F =200mA	-	0.53	0.6	V
Reverse Current	lr	V _R =40V	-	-	2	μΑ
Inter-Terminal Capacity	Ct	V _R =10V , f=1MHz	-	5	-	pF
Reverse Recovery Time*	trr	I _F =I _R =10mA , irr=1mA	-	4	-	ns

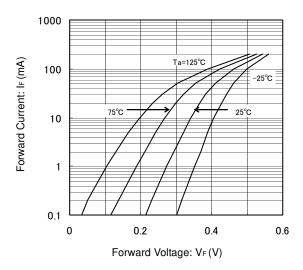




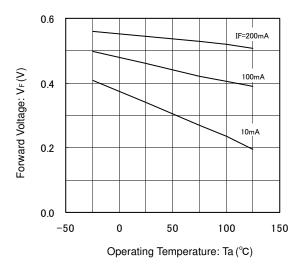
^{*} The device orientation is fixed in its embossed tape pocket.

■TYPICAL PERFORMANCE CHARACTERISTICS

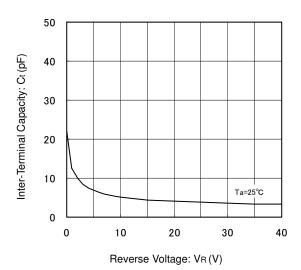
(1) Forward Current vs. Forward Voltage



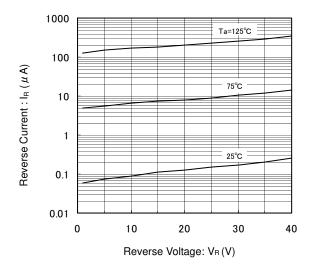
(3) Forward Voltage vs. Operating Temperature



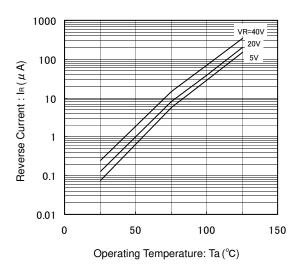
(5) Inter-Terminal Capacity vs. Reverse Voltage



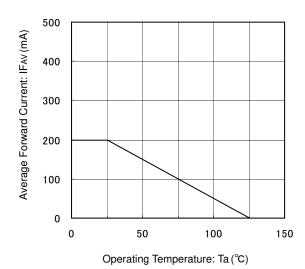
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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