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, 100mA, 30V Type

FEATURES

Forward Voltage

: V_F=0.71V (TYP.)

Forward Current

: I_{F(AV)}=100mA

Repetitive Peak Reverse Voltage: V_{RM}=30V

Environmentally Friendly

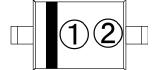
: EU RoHS Compliant, Pb Free

■ABSOLUTE MAXIMUM RATING

			1a=25 C	
PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Reverse Voltage	Vrm	30	V	
Reverse Voltage (DC)	VR	30	V	
Forward Current (Average)	IF(AV)	100	mA	
Non Continuous	IFSM	0.6	А	
Forward Surge Current ^{*1}	IFSM	0.0	A	
Junction Temperature	Tj	125	°C	
Storage Temperature Range	Tstg	-55~+150	°C	

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

MARKING RULE



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

■PRODUCT NAME

PRODUCT NAME	DESCRIPTION		
XBS013S15R	SOD-523		
XBS013S15R-G	SOD-523 (Halogen & Antimony free)		

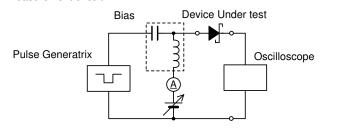
* The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

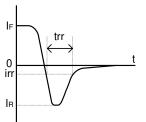
* The device orientation is fixed in its embossed tape pocket.

■ELECTRICAL CHARACTERISTICS

PARAMETER SYMBOL	SVMBOL	TEST CONDITIONS	LIMITS			UNIT
	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Forward Voltage	VF1	I _F =1mA	-	0.31	-	V
VF	VF2	I _F =100mA	-	0.71	1	V
Reverse Current	IR	V _R =25V	-	-	2	μA
Inter-Terminal Capacity	Ct	V _R =0V , f=1MHz	-	6	-	pF
Reverse Recovery Time ^{*2}	trr	I _F =I _R =10mA , irr=1mA	-	2	-	ns

*2 : trr measurement circuit



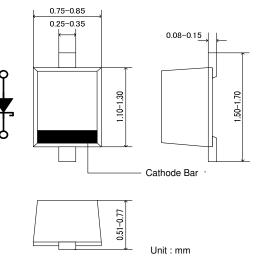


■ APPLICATIONS

Low Current Rectification

■ PACKAGING INFORMATION

ETR1603-003





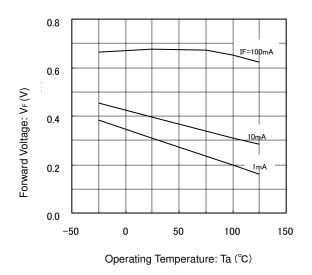
Ta=25°C

■TYPICAL PERFORMANCE CHARACTERISTICS

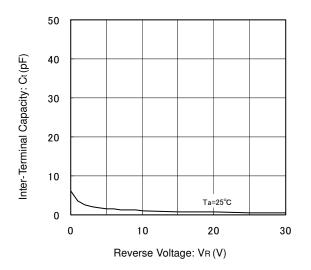
(1) Forward Current vs. Forward Voltage

 $(FU) = 100 \\ 100$

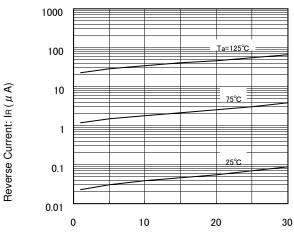
(3) Forward Voltage vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage

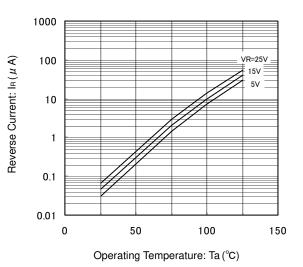


(2) Reverse Current vs. Reverse Voltage

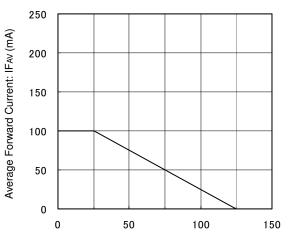


Reverse Voltage: VR(V)

(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



Operating Temperature: Ta (°C)

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