

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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XBS104S13R-G



ETR1608-003

Schottky Barrier Diode, 1A, 40V Type

■FEATURES

Forward Voltage : V_F=0.49V (TYP.)

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

Environmentally Friendly : EU RoHS Compliant, Pb Free

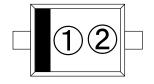
■ ABSOLUTE MAXIMUM RATINGS

Ta-	25	ᡥ

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	۸	
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.

■MARKING RULE

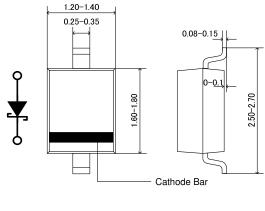


- ①: 1 (Product Number)
- 2: Assembly Lot Number

■APPLICATIONS

- Rectification
- Protection against reverse connection of battery

■ PACKAGING INFORMATION





■ PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION		
XBS104S13R-G	SOD-323A (Halogen & Antimony free)		
XBS104S13R	SOD-323A		

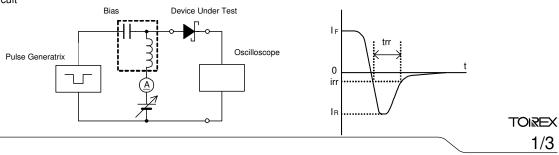
^{*} The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER SYMBOL	TEST CONDITIONS	LIMITS			UNIT	
	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Forward Voltage	VF1	I _F =100mA	-	0.34	-	V
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, $R_L = 100 \Omega$	-	25	-	ns

^{*2 :} trr measurement circuit

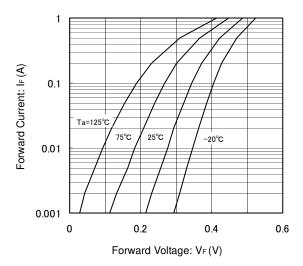


^{*} The device orientation is fixed in its embossed tape pocket.

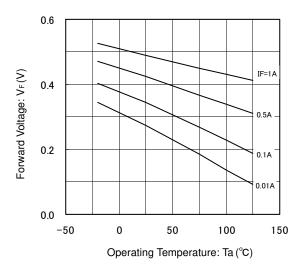
XBS104S13R-G

■TYPICAL PERFORMANCE CHARACTERISTICS

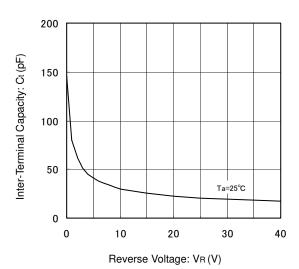
(1) Forward Current vs. Forward Voltage



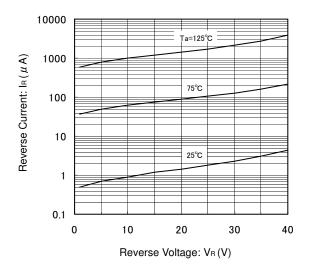
(3) Forward Voltage vs. Operating Temperature



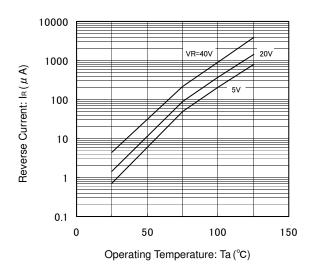
(5) Inter-Terminal Capacity vs. Reverse Voltage



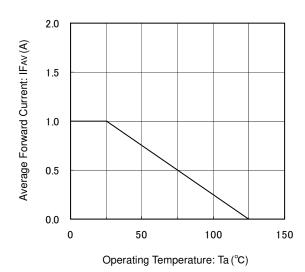
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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