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

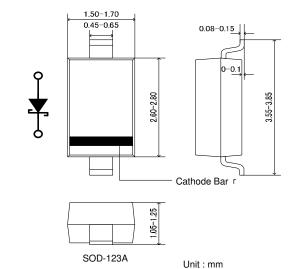
■ ABSOLUTE MAXIMUM RATINGS

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Reverse Voltage	VRM	40	V	
Reverse Voltage (DC)	age (DC) VR		V	
Forward Current (Average)	lF(AV)	1	Α	
Non Continuous	IFSM	10	۸	
Forward Surge Current *1	IFSM	10	Α	
Junction Temperature	Tj	125	လူ	
Storage Temperature Range	Tstg	-55 ~ +150	°C	

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

■ PACKAGING INFORMATION







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

■PRODUCT NAME

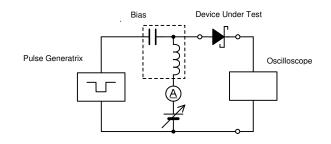
PRODUCT NAME	DESCRIPTION	
XBS104S14R	SOD-123A	
XBS104S14R-G	SOD-123A (Halogen & Antimony free)	

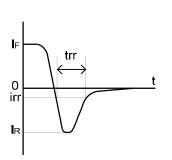
■ ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER SYMBOL	CVMPOL	SYMBOL TEST CONDITIONS	LIMITS			UNIT
	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Forward Voltage		I _F =100mA	-	0.34	-	V
1 orward voitage	VF2	I _F =1A	1	0.49	0.54	V
Reverse Current	lr	V _R =40V	ı	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

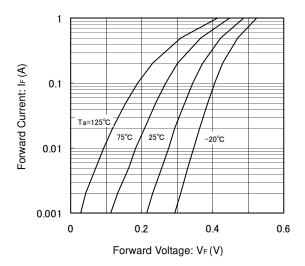
^{*2 :} trr measurement circuit



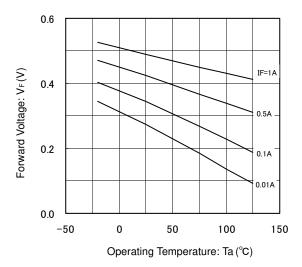


■TYPICAL PERFORMANCE CHARACTERISTICS

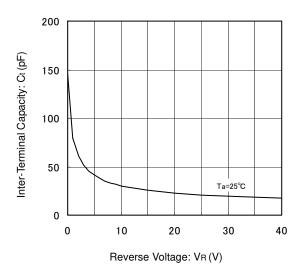
(1) Forward Current vs. Forward Voltage



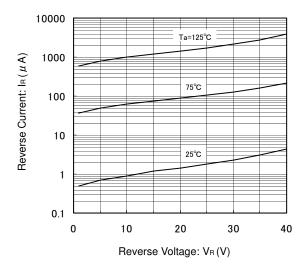
(3) Forward Voltage vs. Operating Temperature



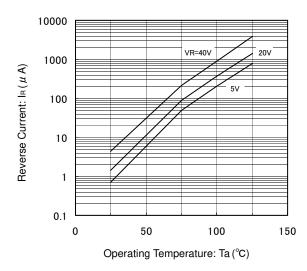
(5) Inter-Terminal Capacity vs. Reverse Voltage



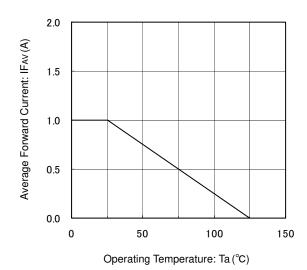
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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