XBS104V14R-G



ETR1610-002

Schottky Barrier Diode, 1A, 40V Type

■FEATURES

Forward Voltage : V_F=0.365V (TYP.)

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

Environmentally Friendly : EU RoHS Compliant, Pb Free

■APPLICATIONS

- Rectification
- Protection against reverse connection of battery

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL RATINGS		UNIT	
Repetitive Peak Reverse Voltage	VRM	40	V	
Reverse Voltage (DC)	VR	40	V	
Forward Current (Average)	I F(AV)	1	Α	
Non Continuous	IFSM	20	Α	
Forward Surge Current ^{*1}	IFSIVI	20	A	
Junction Temperature	Tj	125	°C	
Storage Temperature Range	Tstg	-55~+150	°C	

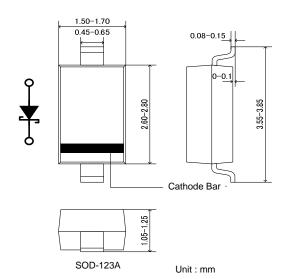
^{*1:} Non continuous high amplitude 60Hz half-sine wave.

■MARKING RULE



1: 0 (Product Number)

■ PACKAGING INFORMATION



Ш	(1) (2)	②: Assembly Lot Number

■PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION		
XBS104V14R-G	SOD-123A(Halogen & Antimony free)		
XBS104V14R	SOD-123A		

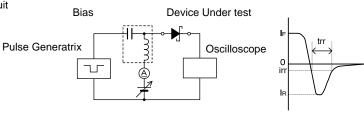
^{*} The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
			MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF1	I _F =100mA	-	0.23	0.315	V
	VF2	I _F =500mA	i	0.30	0.385	V
	VF3	I _F =1A	-	0.365	0.41	V
Reverse Current	lr	V _R =40V	-	0.25	2	mA
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	150	-	pF
Reverse Recovery Time*2	trr	I _F =I _R =10mA , irr=1mA	=	41	-	ns

^{*2 :} trr measurement circuit

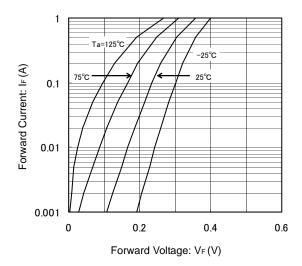


^{*} When the IC is operated continuously under high load conditions such as high temperature, high current and high voltage, it may have the case that reliability reduces drastically even if under the absolute maximum ratings. Adequate "Derating" should be taken into consideration while designing.

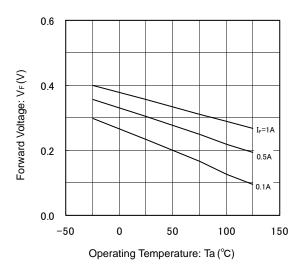
^{*} The device orientation is fixed in its embossed tape pocket.

■TYPICAL PERFORMANCE CHARACTERISTICS

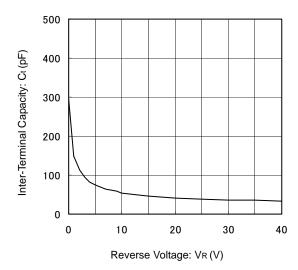
(1) Forward Current vs. Forward Voltage



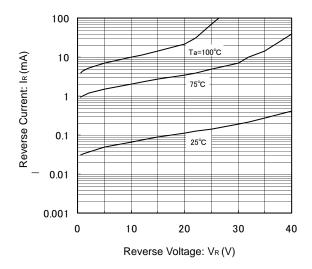
(3) Forward Voltage vs. Operating Temperature



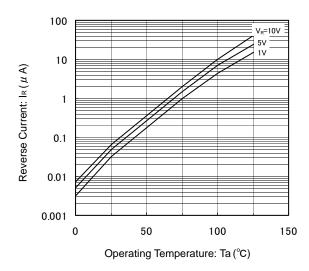
(5) Inter-Terminal Capacity vs. Reverse Voltage



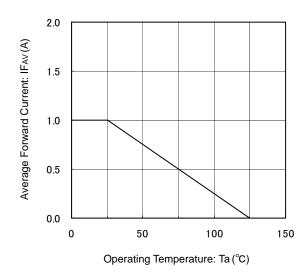
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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