# XBS104S14

捷多邦,专业PCB打样工厂,24小时加急出

ETR1609-002

## Schottky Barrier Diode, 1A, 40V, SOD-123A Package

#### **FEATURES**

Forward Voltage

: V<sub>F</sub>=0.49V (TYP.)

**Forward Current** : I<sub>F(AV)</sub>=1A Repetitive Peak Reverse Voltage : V<sub>RM</sub>=40V

### **APPLICATIONS**

Rectification

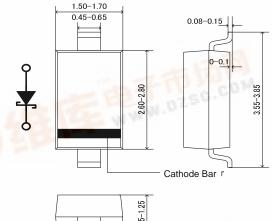
Protection against reverse connection of battery

## ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	VRM	40	V
Reverse Voltage (DC)	VR	40	V
Forward Current (Average)	<b>I</b> F(AV)	1	Α
Non Continuous	IFSM	10	А
Forward Surge Current *1		10	
Junction Temperature	Tj	125	
Storage Temperature Range	Tstg	-55 ~ +150	

<sup>\*1:</sup> Non continuous high amplitude 60Hz half-sine wave.

# PACKAGING INFORMATION





Unit: mm WWW.DZSC.COM

#### MARKING RULE



: 1 (Product Number) : Assembly Lot Number

## **PRODUCT NAME**

PRODUCT NAME	DEVICE ORIENTATION
XBS104S14 ·	R : Embossed tape, standard feed

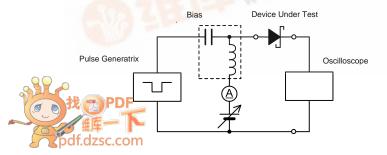
Please put the device orientation type "R".

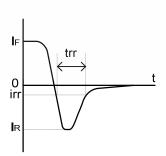
### **ELECTRICAL CHARACTERISTICS**

Ta=25

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
FARAIVILTER STINBOL		TEST CONDITIONS		TYP.	MAX.	
Forward Voltage	VF1	I <sub>F</sub> =100mA		0.34	2 C	V
VF2	VF2	I <sub>F</sub> =1A	E-W	0.49	0.54	V
Reverse Current	lr	V <sub>R</sub> =40V		4	200	μА
Inter-Terminal Capacity	Ct	V <sub>R</sub> =10V ,,f=1MHz	-	35	-	pF
Reverse Recovery Time *2	trr	I <sub>F</sub> =I <sub>R</sub> =10mA , irr=1mA , RL=100	-	25	-	ns

<sup>\*2:</sup> trr measurement circuit

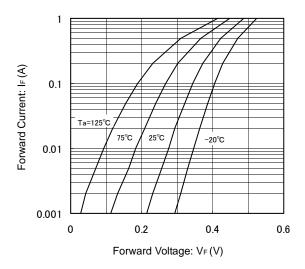




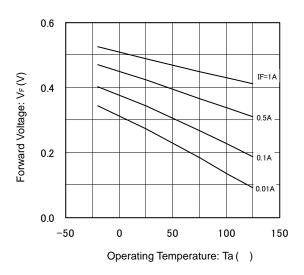
## XBS104S14

## TYPICAL PERFORMANCE CHARACTERISTICS

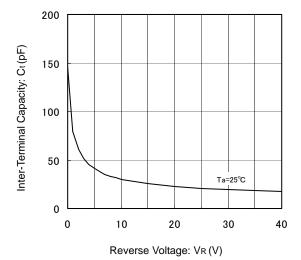
(1) Forward Current vs. Forward Voltage



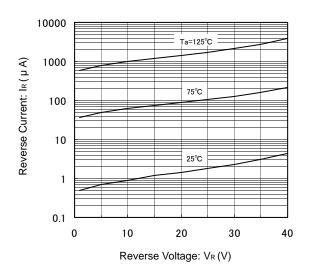
(3) Forward Voltage vs. Operating Temperature



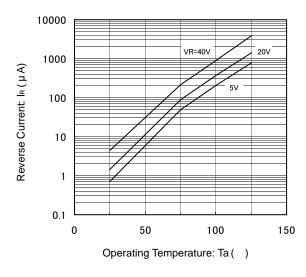
(5) Inter-Terminal Capacity vs. Reverse Voltage



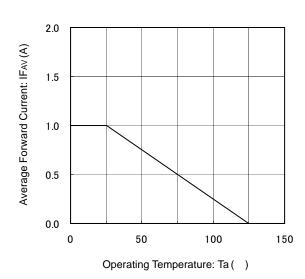
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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