ETR1609-002

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

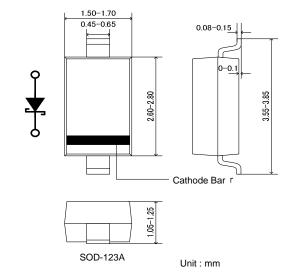
ABSOLUTE MAXIMUM RATINGS

Ta=25

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	10	Α
Forward Surge Current *1	IFSM		Α
Junction Temperature	Tj	125	
Storage Temperature Range	Tstg	-55 ~ +150	

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

PACKAGING INFORMATION



MARKING RULE



: 1 (Product Number)

: Assembly Lot Number

PRODUCT NAME

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

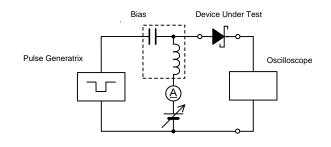
Please put the device orientation type "R".

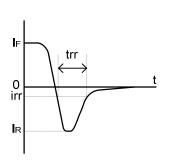
ELECTRICAL CHARACTERISTICS

Ta=25

PARAMETER SYMBOL	CVMPOL	TEST CONDITIONS		LIMITS	IMITS	UNIT
	STIVIBOL	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	IR	V _R =40V	-	4	200	μA
Inter-Terminal Capacity	Ct	V _R =10V ,,f=1MHz	-	35	-	pF
Reverse Recovery Time *2	trr	$I_F=I_R=10$ mA , irr=1mA , RL=100	-	25	-	ns

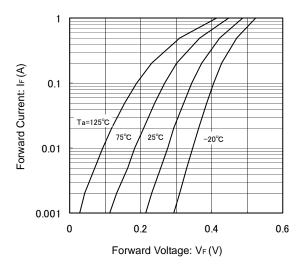
^{*2:} trr measurement circuit



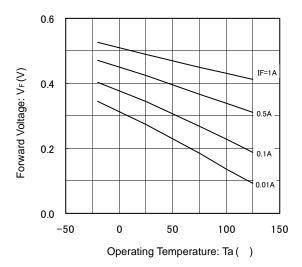


TYPICAL PERFORMANCE CHARACTERISTICS

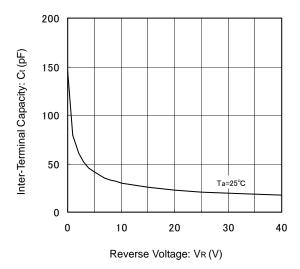
(1) Forward Current vs. Forward Voltage



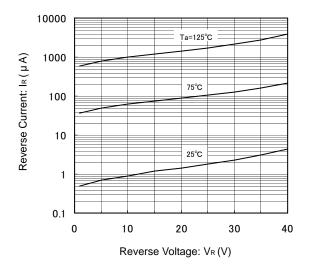
(3) Forward Voltage vs. Operating Temperature



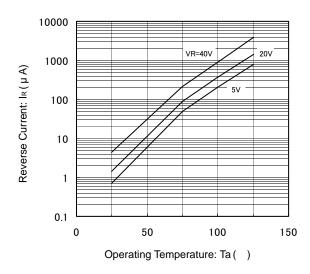
(5) Inter-Terminal Capacity vs. Reverse Voltage



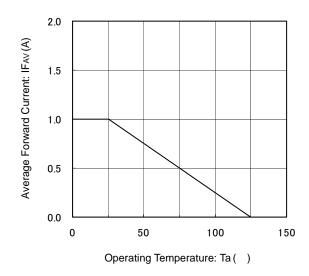
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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