ETR1606-002

Schottky Barrier Diode, 500mA, 30V Type

FEATURES

Forward Voltage : V_F=0.40V (TYP.)

Forward Current : $I_{F(AV)}$ =500mA

Repetitive Peak Reverse Voltage: V_{RM}=30V

APPLICATIONS

Rectification

Protection against reverse connection of battery

PACKAGING INFORMATION

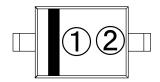
ABSOLUTE MAXIMUM RATINGS

Ta=25

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Voltage	Vrm	30	V	
Reverse Voltage (DC)	VR	20	V	
Forward Current (Average)	I F(AV)	500	mA	
Non Continuous	uous IFSM		Α	
Forward Surge Current ^{*1}	IF5M	5	A	
Junction Temperature	Tj	125		
Storage Temperature Range	Tstg	-55 ~ +150		

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

MARKING RULE



: 0 (Product Number) : Assembly Lot Number

1.20-1.40 0.25-0.35 0.08-0.15 0.08-0.15 0.08-0.15 Cathode Bar

SOD-323A

Unit: mm

PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION	
XBS053V13 *	R : Embossed tape, standard feed	

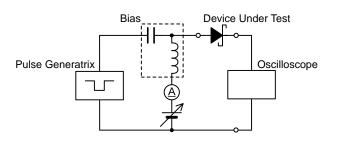
^{*} Please put the device orientation type "R".

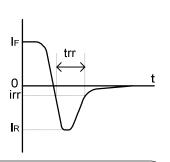
ELECTRICAL CHARACTERISTICS

Ta=25

PARAMETER SYMBO	CVMPOL	YMBOL TEST CONDITIONS	LIMITS			UNIT
	STIVIBUL		MIN.	TYP.	MAX.	UNIT
Forward Voltage VF1 VF2	VF1	I _F =100mA	-	0.28	-	V
	VF2	I _F =500mA	-	0.40	0.47	V
Reverse Current	lr	V _R =20V	-	-	100	μA
Inter-Terminal Capacity	Ct	V _R =10V , f=1MHz	-	12	-	pF
Reverse Recovery Time*2	trr	I _F =I _R =10mA , irr=1mA	-	8	-	ns

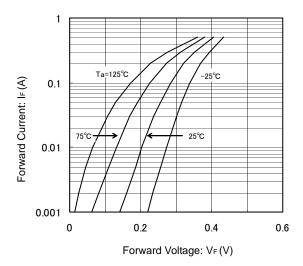
^{*2 :} trr measurement circuit



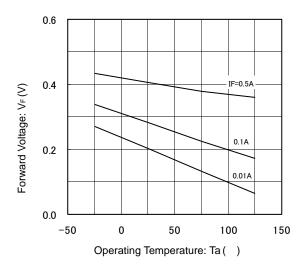


TYPICAL PERFORMANCE CHARACTERISTICS

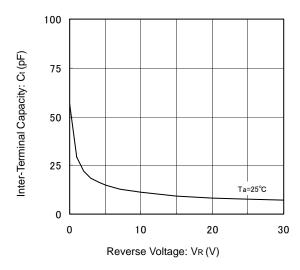
(1) Forward Current vs. Forward Voltage



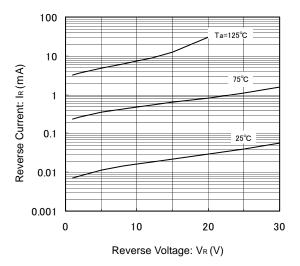
(3) Forward Voltage vs. Operating Temperature



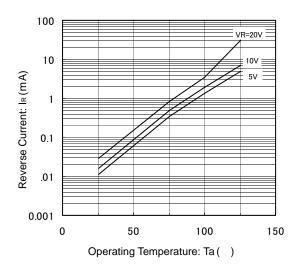
(5) Inter-Terminal Capacity vs. Reverse Voltage



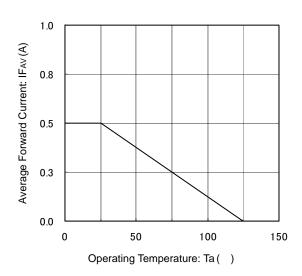
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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