

Schottky Barrier Diode, 500mA, 30V Type

FEATURES

Forward Voltage

: V_F=0.40V (TYP.)

Forward Current

Environmentally Friendly

: I_{F(AV)}=500mA

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

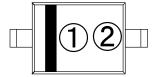
: EU RoHS Compliant, Pb Free

■ABSOLUTE MAXIMUM RATINGS

		Ta=25°C	
SYMBOL	RATINGS	UNIT	
Vrm	30	V	
VR	20	V	
IF(AV)	500	mA	
Isou	5	^	
IFSM	5	A	
Tj	125	°C	
Tstg	-55~+150	°C	
	VRM VR IF(AV) IFSM Tj	VRM 30 VR 20 IF(AV) 500 IFSM 5 Tj 125	

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

MARKING RULE



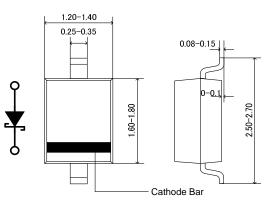
①: 0 (Product Number)
 ②: Assembly Lot Number

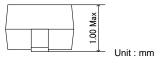
■ APPLICATIONS

- Rectification
- Protection against reverse connection of battery

ETR1606-003

■ PACKAGING INFORMATION







PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION		
XBS053V13R	SOD-323A		
XBS053V13R-G	SOD-323A(Halogen & Antimony free)		

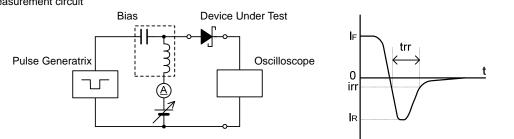
* The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

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

■ELECTRICAL CHARACTERISTICS

PARAMETER SYN	SVMBOL	SYMBOL TEST CONDITIONS	LIMITS			UNIT
	STIVIDUL		MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF1	I _F =100mA	-	0.28	-	V
Forward voltage	VF2	I _F =500mA	-	0.40	0.47	V
Reverse Current	IR	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

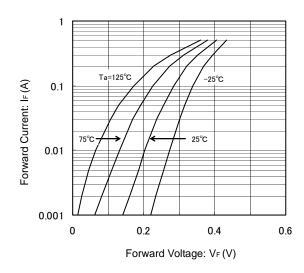


Ta=25°C

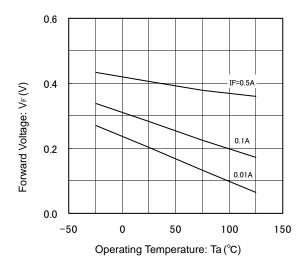
■TYPICAL PERFORMANCE CHARACTERISTICS

(1) Forward Current vs. Forward Voltage

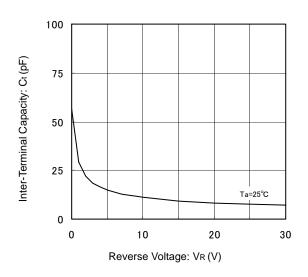
(2) Reverse Current vs. Reverse Voltage

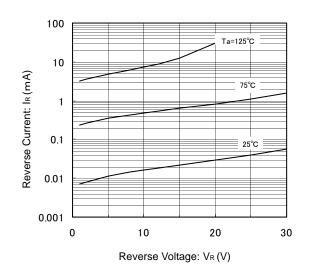


(3) Forward Voltage vs. Operating Temperature

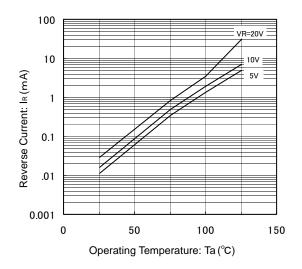


(5) Inter-Terminal Capacity vs. Reverse Voltage

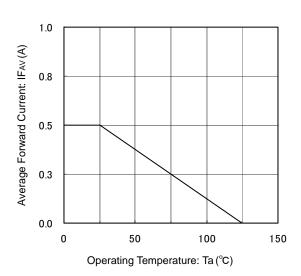




(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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