XBS013S15R-G



ETR1603-003

Schottky Barrier Diode, 100mA, 30V Type

■FEATURES

Forward Voltage : $V_F=0.71V$ (TYP.)

Forward Current : I_{F(AV)}=100mA

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

Environmentally Friendly : EU RoHS Compliant, Pb Free

■APPLICATIONS

Low Current Rectification

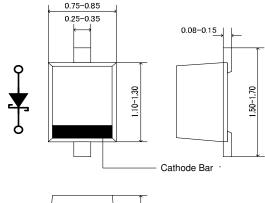
■ ABSOLUTE MAXIMUM RATING

Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Reverse Voltage	VRM	30	V	
Reverse Voltage (DC)	VR	30	V	
Forward Current (Average)	lF(AV)	100	mA	
Non Continuous		0.6	^	
Forward Surge Current ^{*1}	IFSM	0.6	Α	
Junction Temperature	Tj	125	သူ	
Storage Temperature Range	Tstg	-55 ~ +150	°C	

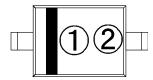
^{*1 :} Non continuous high amplitude 60Hz half -sine wave.

■ PACKAGING INFORMATION





■MARKING RULE



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

■PRODUCT NAME

PRODUCT NAME	DESCRIPTION		
XBS013S15R	SOD-523		
XBS013S15R-G	SOD-523 (Halogen & Antimony free)		

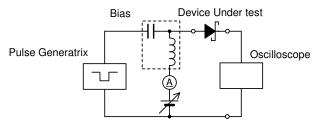
^{*} The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

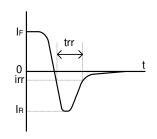
■ELECTRICAL CHARACTERISTICS

Ta=25°C

PARAMETER SYMBOL	SVMBOL	TEST CONDITIONS	LIMITS			UNIT
	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Forward Voltage	VF1	I _F =1mA	-	0.31	-	V
\ \	VF2	I _F =100mA	-	0.71	1	V
Reverse Current	lr	V _R =25V	-	-	2	μΑ
Inter-Terminal Capacity	Ct	V _R =0V , f=1MHz	-	6	-	pF
Reverse Recovery Time*2	trr	I _F =I _R =10mA , irr=1mA	-	2	-	ns

^{*2 :} trr measurement circuit



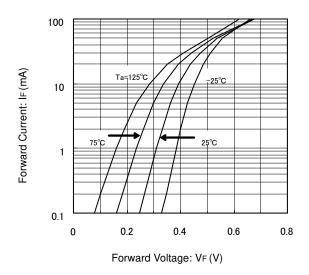


^{*} The device orientation is fixed in its embossed tape pocket.

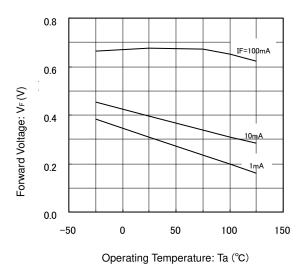
XBS013S15R-G

■TYPICAL PERFORMANCE CHARACTERISTICS

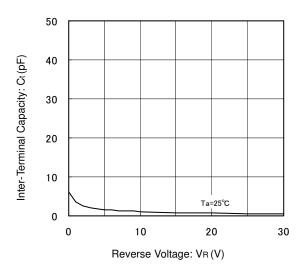
(1) Forward Current vs. Forward Voltage



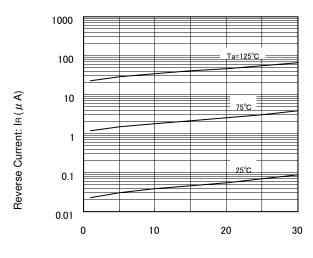
(3) Forward Voltage vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage

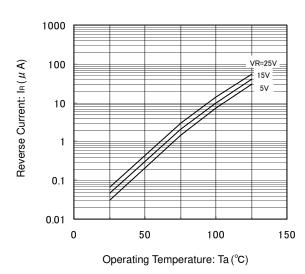


(2) Reverse Current vs. Reverse Voltage

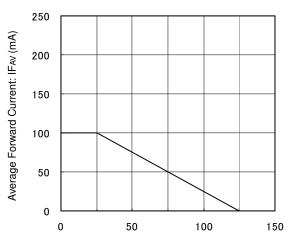


Reverse Voltage: VR(V)

(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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