XBS013S15



ETR1603-002

Schottky Barrier Diode, 100mA, 30V Type

FEATURES

APPLICATIONS

Forward Voltage : V_F=0.71V (TYP.)

Forward Current : $I_{F(AV)}$ =100mA Repetitive Peak Reverse Voltage: V_{RM} =30V Low Current Rectification

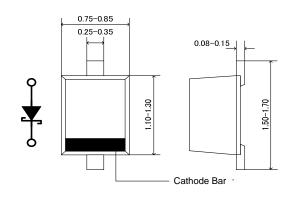
ABSOLUTE MAXIMUM RATING

a=25

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	IFSM	0.6	Α	
Forward Surge Current ^{*1}	IFSM	0.6	A	
Junction Temperature	Tj	125		
Storage Temperature Range	Tstg	-55 ~ +150		

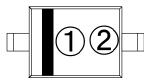
^{*1 :} Non continuous high amplitude 60Hz half –sine wave.

PACKAGING INFORMATION





MARKING RULE



: 0 (Product Number)

: Assembly Lot Number

PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION		
XBS013S15 .	R : Embossed tape, standard feed		

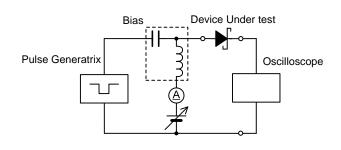
^{*} Please put the device orientation type "R".

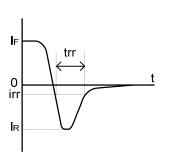
ELECTRICAL CHARACTERISTICS

Ta=25

						14- 2 0
PARAMETER SYMB	CVMPOL	. TEST CONDITIONS	LIMITS			UNIT
	STIVIBOL		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	-	ı	2	μA
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

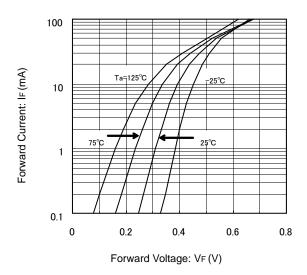
^{*2 :} trr measurement circuit



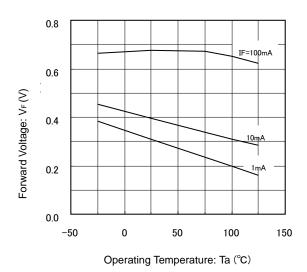


TYPICAL PERFORMANCE CHARACTERISTICS

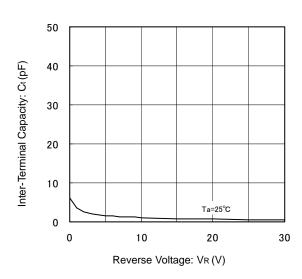
(1) Forward Current vs. Forward Voltage



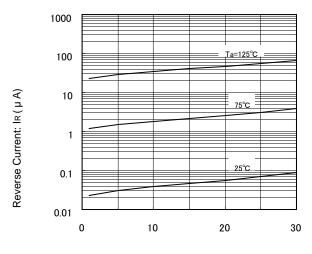
(3) Forward Voltage vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage

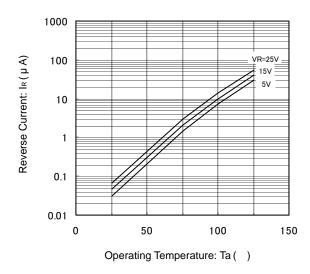


(2) Reverse Current vs. Reverse Voltage

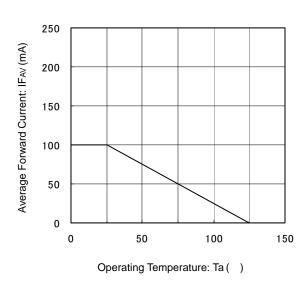


Reverse Voltage: VR (V)

(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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