ETR1603-002

Schottky Barrier Diode, 100mA, 30V Type

FEATURES

APPLICATIONS

Forward Voltage : V_F=0.71V (TYP.) Low Current Rectification

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

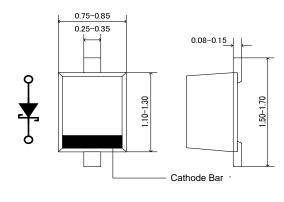
ABSOLUTE MAXIMUM RATING

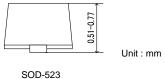
Га=25

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		A
Junction Temperature	Tj	125	
Storage Temperature Range	Tstg	-55 ~ +150	

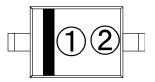
^{*1 :} Non continuous high amplitude 60Hz half -sine wave.

PACKAGING INFORMATION





MARKING RULE



: 0 (Product Number) : Assembly Lot Number

PRODUCT NAME

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

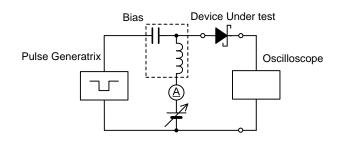
^{*} Please put the device orientation type "R".

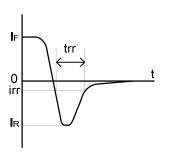
ELECTRICAL CHARACTERISTICS

Ta=25

						14- 2 0
PARAMETER SYMBO	CVMPOL	SYMBOL 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	-	-	2	μA
Inter-Terminal Capacity	Ct	V _R =0V , f=1MHz	-	6	-	pF
Reverse Recovery Time*2	trr	$I_F=I_R=10$ mA , irr=1mA	-	2	-	ns

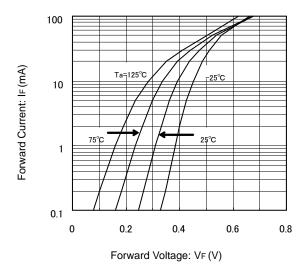
^{*2 :} trr measurement circuit



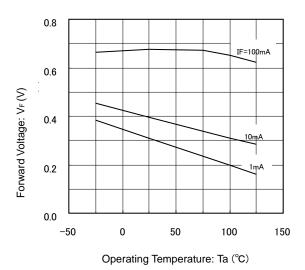


TYPICAL PERFORMANCE CHARACTERISTICS

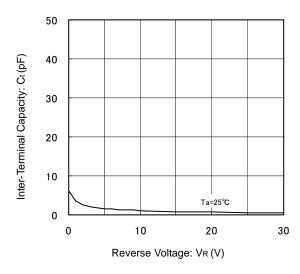
(1) Forward Current vs. Forward Voltage



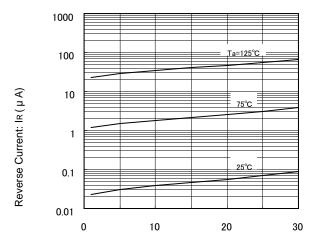
(3) Forward Voltage vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage

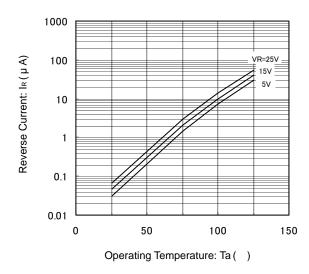


(2) Reverse Current vs. Reverse Voltage

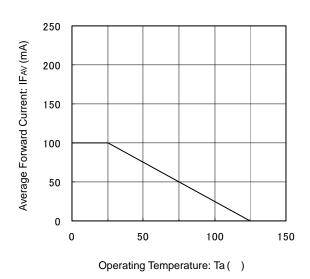


Reverse Voltage: VR (V)

(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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