ETR1605-002

Schottky Barrier Diode, 200mA, 40V Type

FEATURES

APPLICATIONS

Forward Voltage : $V_F=0.53V$ (TYP.)

Forward Current : I_{F(AV)}=200mA

Repetitive Peak Reverse Voltage : V_{RM} =40V

Low Current Rectification

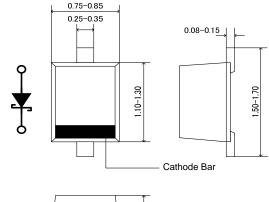
ABSOLUTE MAXIMUM RATINGS

Ta=25

PARMETER	SYMBOL	RATINGS	UNIT	
Repetitive Peak Voltage	VRM	40	V	
Reverse Voltage (DC)	VR	40	V	
Forward Current (Average)	lF(AV)	200	mA	
Non Continuous	IFSM	4	۸	
Forward Surge Current ^{*1}	IFSM	'	А	
Junction Temperature	Tj	125		
Storage Temperature Range	Tstg	-55 ~ +150		

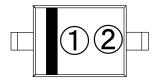
^{*1 :} Non continuous high amplitude 60Hz half-sine wave.

PACKAGING INFORMATION





MARKING RULE



: 1 (Product Number) : Assembly Lot Number

PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION	
XBS024S15	R : Embossed tape, standard feed	

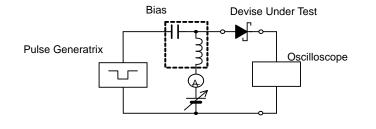
^{*} Please put the device orientation type "R".

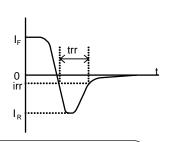
ELECTRICAL CHARACTERISTICS

Ta=25

PARAMETER SYM	CVMPOL	MBOL TEST CONDITIONS	LIMITS			UNIT
	STIVIBOL		MIN.	TYP.	MAX.	UNIT
Forward Voltage —	VF1	I _F =10mA	-	0.33	-	V
	VF2	I _F =200mA	-	0.53	0.6	V
Reverse Current	IR	V _R =40V	-	-	2	μA
Inter-Terminal Capacity	Ct	V _R =10V , f=1MHz	-	5	-	pF
Reverse Recovery Time*2	trr	I _F =I _R =10mA , irr=1mA	-	4	-	ns

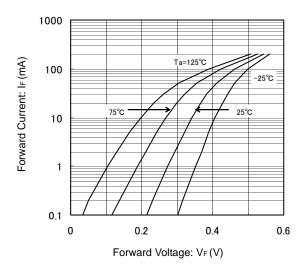
^{*2 :} trr measurement circuit



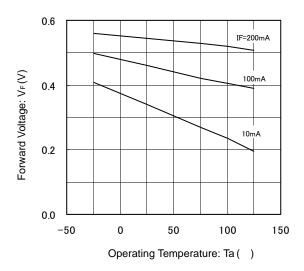


TYPICAL PERFORMANCE CHARACTERISTICS

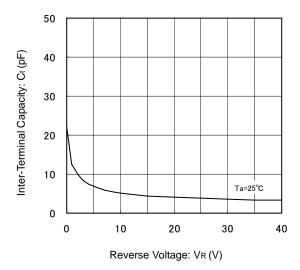
(1) Forward Current vs. Forward Voltage



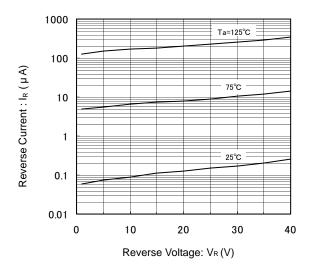
(3) Forward Voltage vs. Operating Temperature



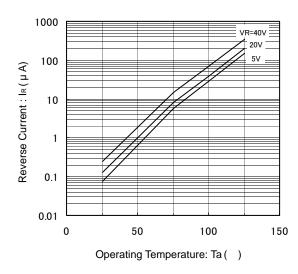
(5) Inter-Terminal Capacity vs. Reverse Voltage



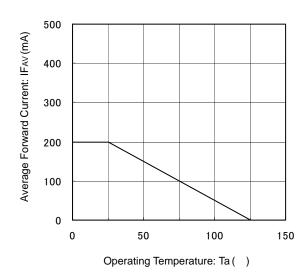
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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