

XBS206S17

TOREX

ETR1613-002

Schottky Barrier Diode, 2A, 60V Type

FEATURES

Forward Voltage	: $V_F=0.615V$ (TYP.)
Forward Current	: $I_{F(AV)}=2A$
Repetitive Peak Reverse Voltage	: $V_{RM}=60V$

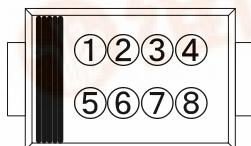
ABSOLUTE MAXIMUM RATINGS

Ta=25

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RM}	60	V
Reverse Voltage (DC)	V_R	60	V
Forward Current (Average)	$I_{F(AV)}$	2	A
Non Continuous Forward Surge Current ¹	I_{FSM}	45	A
Junction Temperature	T_j	125	
Storage Temperature Range	T_{stg}	-55 ~ +150	

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

MARKING RULE



: 206S17(Product Number)
: Assembly Lot Number

PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION
XBS206S17	R : Embossed tape, standard feed

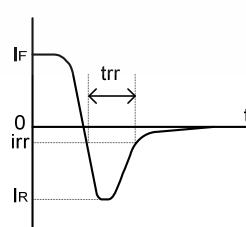
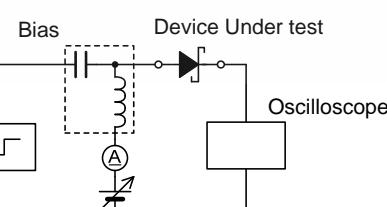
* Please put the device orientation type "R".

ELECTRICAL CHARACTERISTICS

Ta=25

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
			MIN.	TYP.	MAX.	
Forward Voltage	V_{F1}	$I_F=200 \mu A$	-	0.15	-	V
	V_{F2}	$I_F=2A$	-	0.615	0.665	V
Reverse Current	I_{R1}	$V_R=30V$	-	2.5	-	μA
	I_{R2}	$V_R=60V$	-	10	300	μA
Inter-Terminal Capacity	C_t	$V_R=1V, f=1MHz$	-	120	-	pF
Reverse Recovery Time ²	trr	$I_F=I_R=10mA, irr=1mA$	-	35	-	ns

*2 : trr measurement circuit

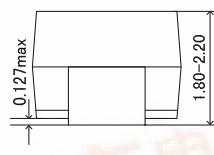
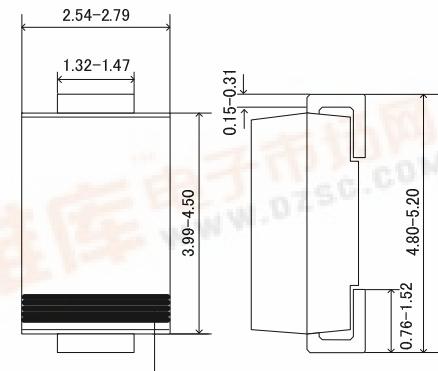


APPLICATIONS

Rectification

Protection against reverse connection of battery

PACKAGING INFORMATION

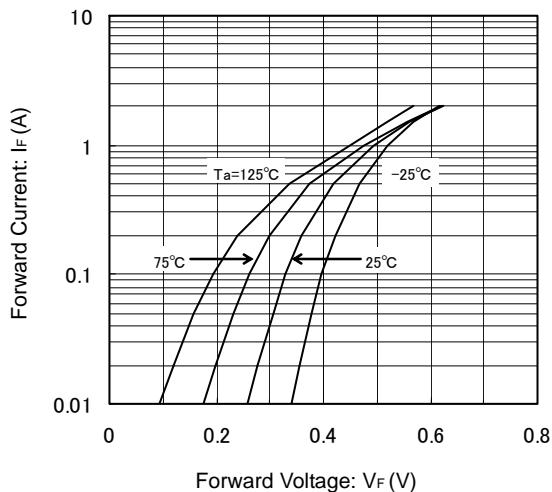


Unit: mm

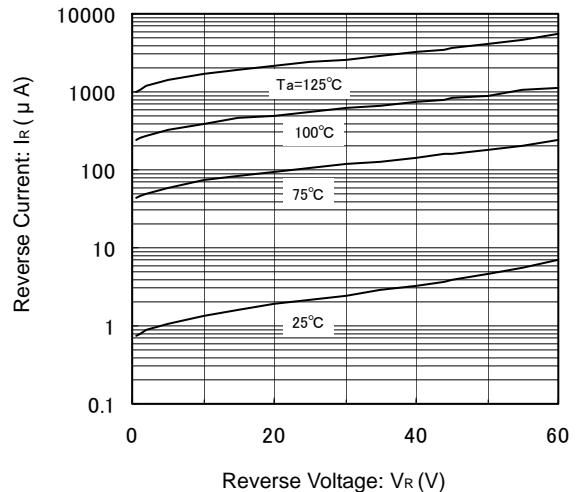
XBS206S17

TYPICAL PERFORMANCE CHARACTERISTICS

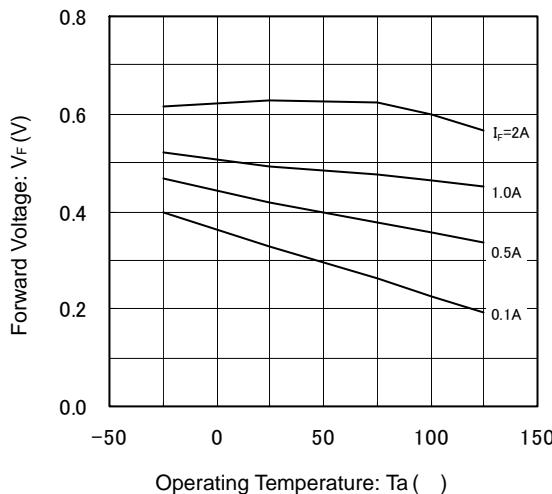
(1) Forward Current vs. Forward Voltage



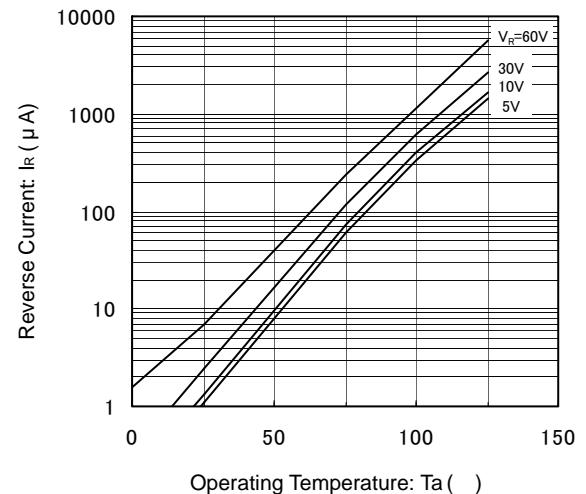
(2) Reverse Current vs. Reverse Voltage



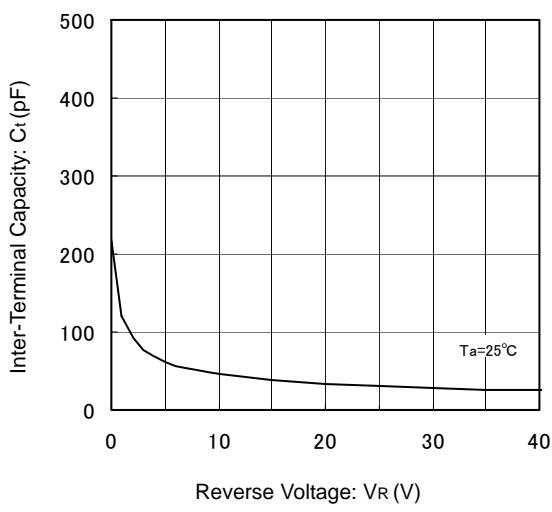
(3) Forward Voltage vs. Operating Temperature



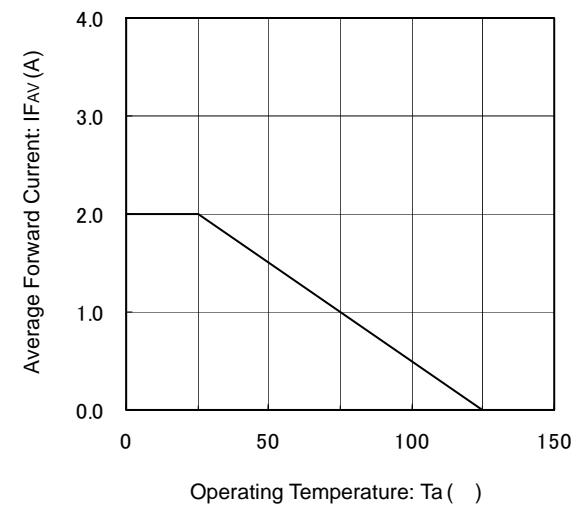
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature



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