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

APPLICATIONS

Rectification

Protection against reverse connection of battery

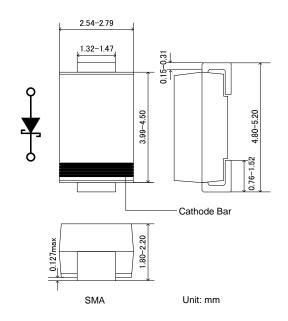
ABSOLUTE MAXIMUM RATINGS

Ta=25

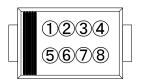
PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	Vrm	60	V
Reverse Voltage (DC)	VR	60	V
Forward Current (Average)	IF(AV)	2	Α
Non Continuous		45	Α
Forward Surge Current ^{*1}	IFSM	40	τ.
Junction Temperature	Tj	125	
Storage Temperature Range	Tstg	-55 ~ +150	

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

PACKAGING INFORMATION



MARKING RULE



: 206S17(Product Number)

: Assembly Lot Number

PRODUCT NAME

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

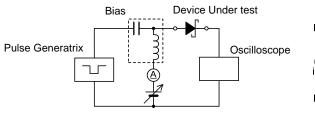
^{*} Please put the device orientation type "R".

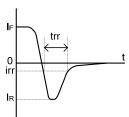
ELECTRICAL CHARACTERISTICS

Ta=25

	_					14-25
PARAMETER SYM	SYMBOL	DL TEST CONDITIONS	LIMITS		UNIT	
	STIVIBOL		MIN.	TYP.	MAX.	UNIT
Forward Voltage ——	VF1	I _F =200 μ A	-	0.15	-	V
	VF2	I _F =2A	-	0.615	0.665	V
Reverse Current IR1	l _{R1}	V _R =30V	-	2.5	-	μA
	lR2	V _R =60V	-	10	300	μA
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	120	-	pF
Reverse Recovery Time*2	trr	$I_F=I_R=10$ mA , irr=1mA	-	35	-	ns

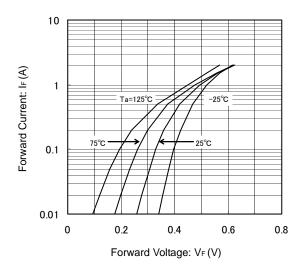
^{*2 :} trr measurement circuit



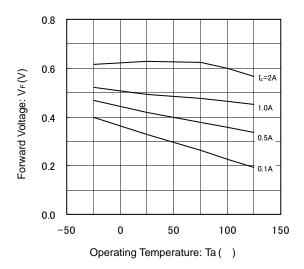


TYPICAL PERFORMANCE CHARACTERISTICS

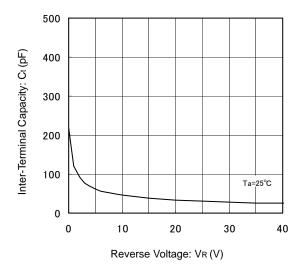
(1) Forward Current vs. Forward Voltage



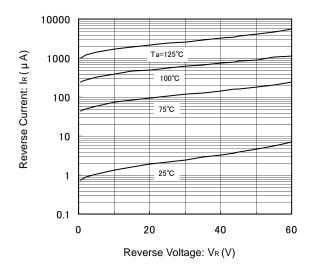
(3) Forward Voltage vs. Operating Temperature



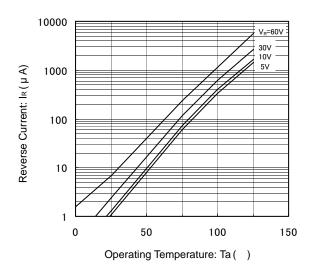
(5) Inter-Terminal Capacity vs. Reverse Voltage



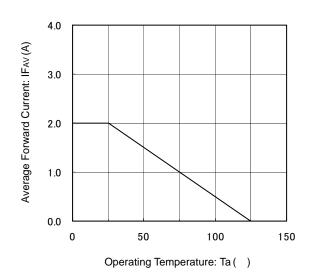
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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