ETR1615-002

Schottky Barrier Diode, 3A, 40V Type

FEATURES

Forward Voltage : V_F=0.465V (TYP.)

Forward Current $: I_{F(AV)} = 3A$

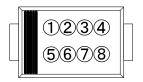
Repetitive Peak Reverse Voltage : V_{RM}=40V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	Vrm	40	V
Reverse Voltage (DC)	erse Voltage (DC) VR 40		V
Forward Current (Average)	lF(AV)	3	Α
Non Continuous	Irou	60	^
Forward Surge Current ^{*1}	IFSM	60	Α
Junction Temperature	Tj	125	
Storage Temperature Range	Tstg	-55 ~ +150	

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

MARKING RULE



: 304S17(Product Number)

: Assembly Lot Number

PRODUCT NAME

PRODUCT NAME	DEVICE ORIENTATION			
XBS304S17 *	R : Embossed tape, standard feed			

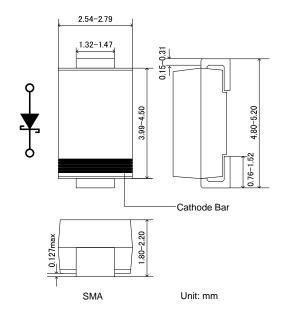
Please put the device orientation type "R".

APPLICATIONS

Rectification

Protection against reverse connection of battery

PACKAGING INFORMATION

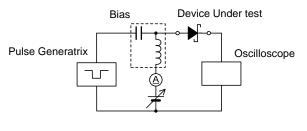


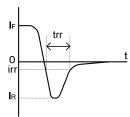
ELECTRICAL CHARACTERISTICS

Ta=25

						=0
PARAMETER SYMBO	CVMPOL	TEST CONDITIONS	LIMITS			UNIT
	STIVIBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Forward Voltage VF1 VF2	VF1	I _F =200 μ A	-	0.135	-	V
	VF2	I _F =3A	-	0.465	0.51	V
Reverse Current IR1 IR2	l _{R1}	V _R =20V	-	5	-	μA
	V _R =40V	-	15	300	μΑ	
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	180	-	pF
Reverse Recovery Time*2	trr	I _F =I _R =10mA , irr=1mA	-	82	-	ns

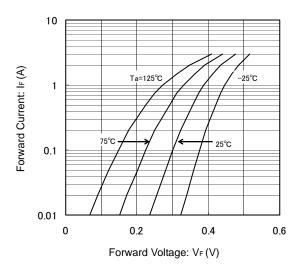
^{*2 :} trr measurement circuit



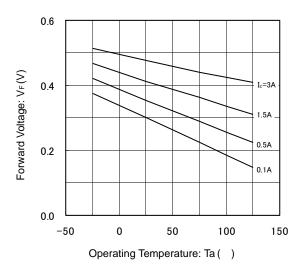


TYPICAL PERFORMANCE CHARACTERISTICS

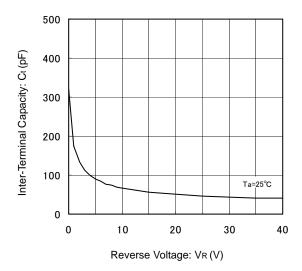
(1) Forward Current vs. Forward Voltage



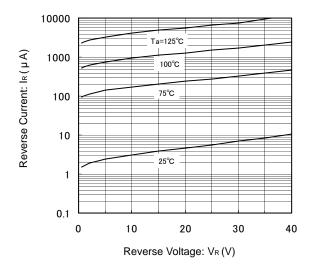
(3) Forward Voltage vs. Operating Temperature



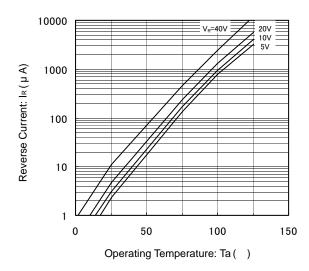
(5) Inter-Terminal Capacity vs. Reverse Voltage



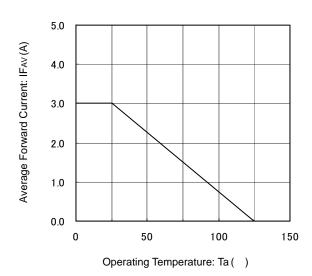
(2) Reverse Current vs. Reverse Voltage



(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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