

Ta=25°C

SMA * The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant. * The device orientation is fixed in its embossed tape pocket.

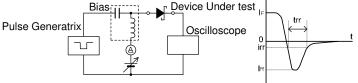
DEVICE ORIENTATION

SMA (Halogen & Antimony free)

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	LIMITS			UNIT
			MIN.	TYP.	MAX.	
Forward Voltage	VF1	I _F =200 μ A	-	0.15	-	V
	VF2	I _F =2A	-	0.485	0.54	V
Reverse Current	IR1	V _R =20V	-	2.5	-	μA
	IR2	V _R =40V		6	200	μA
Inter-Terminal Capacity	Ct	V _R =1V , f=1MHz	-	180	-	pF
Reverse Recovery Time ^{*2}	trr	I _F =I _R =10mA , irr=1mA	-	51	-	ns

*2 : trr measurement circuit



PRODUCT NAME

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XBS204S17R-G

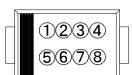
XBS204S17R

123456: 204S17(Product Number) 78 : Assembly Lot Number

MARKING RULE

XBS204S17R-G

Schottky Barrier Diode, 2A, 40V Type



■FEATURES

Repetitive Peak Reverse Voltage

PARAMETER

Repetitive Peak Reverse Voltage

Reverse Voltage (DC)

Non Continuous

Forward Current (Average)

Forward Surge Current^{*1} Junction Temperature

Storage Temperature Range

Forward Voltage

Forward Current

: V_F=0.485V (TYP.)

: I_{F(AVE)}=2A

: V_{BM}=40V

RATINGS

40

40

2

50

125

SYMBOL

VRM

VR

IF(AVE)

IFSM

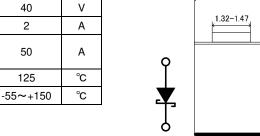
Tj

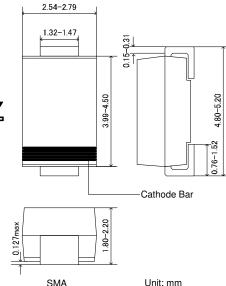
Tstg

■ APPLICATIONS

- Rectification
- Protection against reverse connection of battery

ETR1612-002a

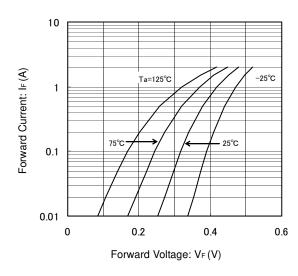




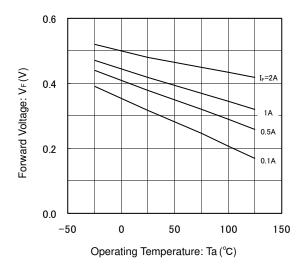
■TYPICAL PERFORMANCE CHARACTERISTICS

(1) Forward Current vs. Forward Voltage

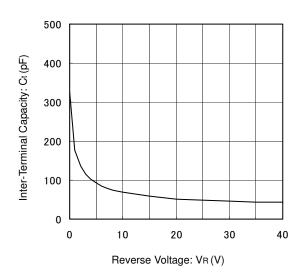
(2) Reverse Current vs. Reverse Voltage

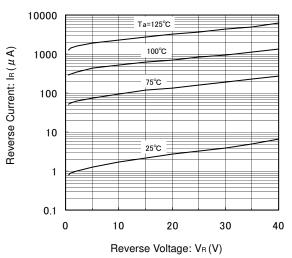


(3) Forward Voltage vs. Operating Temperature

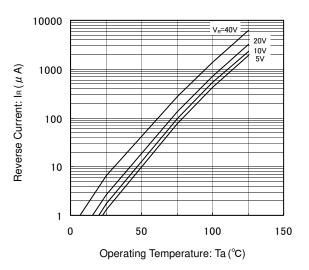


(5) Inter-Terminal Capacity vs. Reverse Voltage

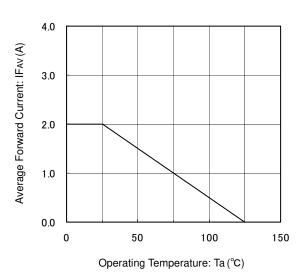




(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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