XBS304S17R-G is Discontinued. XBS304S17R-G



Schottky Barrier Diode, 3A, 40V Type

■FEATURES

Forward Voltage

: VF=0.465V (TYP.)

Forward Current Repetitive Peak Reverse Voltage

: IF(AVE)=3A : V_{RM}=40V

■ABSOLUTE MAXIMUM RATINGS

| RATINGS 40 | UNIT V |
|---------------|----------------|
| 40 | V |
| | |
| 40 | V |
| 3 | А |
| 60 | А |
| 00 | 4 |
| j 125 | |
| -55~+150 | °C |
| | 3 60 125 |

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

■MARKING RULE

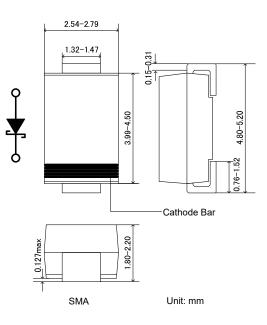


123456: 304S17(Product Number) 78 : Assembly Lot Number

■ APPLICATIONS

- Rectification
- Protection against reverse connection of battery

■PACKAGING INFORMATION



PRODUCT NAME

| PRODUCT NAME | DEVICE ORIENTATION | | |
|--------------|-------------------------------|--|--|
| XBS304S17R-G | SMA (Halogen & Antimony free) | | |
| XBS304S17R | SMA | | |

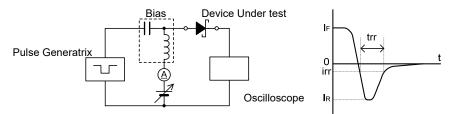
* The "-G" suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

* The device orientation is fixed in its embossed tape pocket.

ELECTRICAL CHARACTERISTICS

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|----------------------------|--------|--|--------|-------|------|------|
| PARAMETER SY | SVMPOL | SYMBOL TEST CONDITIONS - | LIMITS | | | UNIT |
| | STNDUL | | MIN. | TYP. | MAX. | UNIT |
| Forward Valtage | VF1 | I _F =200 μ A | - | 0.135 | - | V |
| Forward Voltage | VF2 | I _F =3A | - | 0.465 | 0.51 | V |
| Reverse Current | IR1 | V _R =20V | - | 5 | - | μA |
| Reverse Current | IR2 | V _R =40V | - | 15 | 300 | μA |
| 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



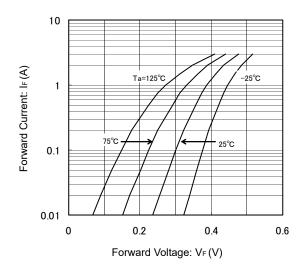
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XBS304S17R-G

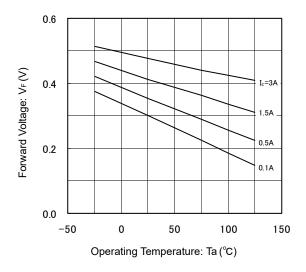
■TYPICAL PERFORMANCE CHARACTERISTICS

(1) Forward Current vs. Forward Voltage

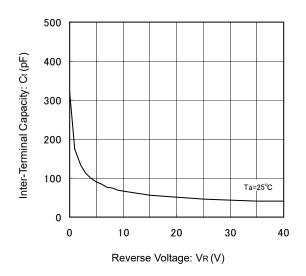
(2) Reverse Current vs. Reverse Voltage

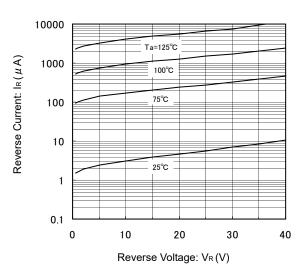


(3) Forward Voltage vs. Operating Temperature

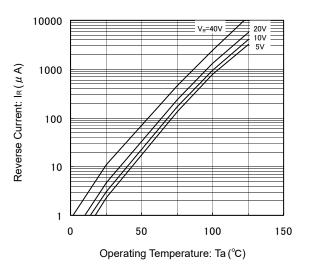


(5) Inter-Terminal Capacity vs. Reverse Voltage

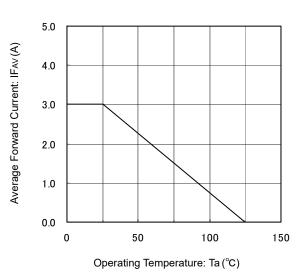




(4) Reverse Current vs. Operating Temperature



(6) Average Forward Current vs. Operating Temperature



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